

composite_type	description
Composite	Composite
Integrated	Time integrated air sampling
Multicoll	Multiple items collected at the same location and time
Multipoint	Multiple spatial points sampled
Multitemp	Multiple times sampled
None	None
Single	Uncomposited: a single sample

conc_qual	description
#	lab qualifier
*	lab qualifier
D	lab qualifier (first seen in K1012252 matrixspike)
J	estimated (for organics)
K	lab qualifier (first seen in K1011248 matrixspike)
N	lab qualifier (first seen in K1005175 matrixspike)
U	lab qualifier (first seen in K1012914.01 lcs)
X	lab qualifier (first seen in K1011127 lcs)

coord_qual	description
Ambiguous	Coordinates are ambiguous due to incomplete or conflicting information.
AssumNAD27	The coordinate system was not specified in the original data source, and was assumed to be NAD27.
AssumNAD83	The coordinate system was not specified in the original data source, and was assumed to be NAD83.
CoordUnkn	The coordinate system was not specified in the original data source, and is not known.
Estimated	Coordinates not provided. Values used are an estimate and/or surrogate derived from a nearby cluster of provided values.
Geocoded	Geocoded street address or other location attribute.

data_class	description
Aerial photo	Aerial photo
Bathymetry	Subaqueous surface contours
Boundary	Non-specific spatial boundary
Contour boundary	Elevation boundary
Geology	Geological data: soil or mineral characterization
Grid	Grid for data specification or summarization
Habitat	Habitat locations
Hypsography	Elevation (altitude) data
Land use	Land use classification
Parcels	Parcel or other property boundaries
RM_Poly	River mile polygon
Roads	Roads, highways, etc.
Sample points	Sampling locations
Sample transects	Sampling transects
Selection bound	Boundary of an area to be used for data selection
Site	Site boundary
SWMU	Solid Waste Management Units
Vegetation	Vegetation locations
Waterways	Lakes, rivers, streams, etc.

data_format	description
Database	Coordinates are stored in the database
GeoPNG	Georeferenced Portable Network Graphics file
GeoTIFF	Georeferenced Tagged Image File Format
Gridfile	ESRI grid data file
Shapefile	ESRI shapefile
XYtable	Data table with coordinates

data_status	description
Complete	The information is complete
Incomplete	The information is not complete
Unavailable	The informaton is unavailable

dimension	description
#	Count or number
#/A	Number per area
#/M	Number per mass
#/V	Number per volume
A	Area
A/M	Radioactivity per mass
C	Conductance
C/L	Conductance per distance
Color	Colour
D	Radioactivity decay rate
D/M	Radioactivity decay rate per mass
D/V	Radioactivity decay rate per volume
EMF	Electromotive force
FTU	Formazin Turbidity Unit
JTU	Jackson Turbidity Unit
L	Length
L/T	Length per time
M	Mass
M/A	Mass per area
M/M	Mass per mass (concentration)
M/T	Mass per time
M/V	Mass per volume (concentration)
N	None (fraction or dimensionless)
NA	Not applicable
NA_co	Not applicable because numeric value is a code
NA_un	Not applicable because units are unknown
NTU	Nephelometer Turbidity Unit
OA	Optical absorbance
P	Temperature
Pa	Pressure
PHU	pH unit
PIAng	Plane angle
Q/M	Equivalents per mass
Q/V	Equivalents per volume
SU	Standard pH units
T	Time
V	Volume

V/T	Volume per time
V/V	Volume per volume
X	temp

doc_cat	description
NA	Not applicable

doc_type	description
Book	Book
Chapter	Book chapter
COCform	Chain of Custody form
CommLit	Commercial literature
Conference	Conference presentation
Datafile	Electronic computer file of data
Deposition	Deposition
E-file	Electronic (digital) file
e-mail	e-mail message
ExpReport	Expert report (for litigation)
FieldBook	Field sampling notebook
FieldForm	Field sampling form(s)
GovReport	Government report or guidance document
IntReport	Internal report/document
LabData	Laboratory data package
LawReg	Law or regulation
Letter	Letter
Memo	Memorandum
News	Newspaper article
Order	Legal order or agreement
Paper	Peer-reviewed scientific paper
PersComm	Personal communication
Photo	Photograph
Report	Grey literature report
SOP	Standard Operating Procedure
SOQ	Statement of qualifications or proposal
Spreadsheet	Spreadsheet (computer file)
Thesis	Thesis
URL	Internet URL (address)
WorkPlan	Work plan

gear	description
0.1m2vanVeen	0.1 m2 vanVeen grab
0.5 m2 Ponar	0.5 m2 Ponar grab
Auger	Auger
Benthos	(Unknown)
BoxCore_0.1	0.1 m2 box corer
BoxCore_14	Box corer 14x14 cm
DeepBoxCorer	Box corer 13.5 x 13.5 x 23 cm
DredgeSmplr	Dredge Sampler (e.g. Ponar, Van Veen, or Ekman)
Ekman	Ekman grab
FloodPlain	Flood Plain
Gillnet	gillnet
Grab	discrete sample taken from any media
GravCorer	Gravity corer
HandCore	hand core sampler
Infiltrex	Infiltrex high volume water sampler
ISCO6712FR	Isco's fiberglass, sequential or composite, refrigerated water sampler
Observation	Observation -- no gear
PetitePonar	Petite Ponar grab
PipeDredge	Stainless steel pipe dredge
PistonCorer	Piston corer
PM10	particulate matter with an aerodynamic mean diameter of 10 micrometers or less high-volume air sampler
PolyScoop	Polyurethane Scoop
PonarGrab	Ponar Grab (no further specifications)
PotTrap	crab/fish/lobster/shrimp/... pot
River/Stream	River/Stream
SecchiDisk	Secchi disk
Shovel	Stainless steel shovel/trowel
Spoon	Stainless steel spoon and bowl
vanVeen	van Veen grab
VanVeen_0.2	0.2 m2 Van Veen grab
VibraCorer	VibraCorer

field_meas_method	description
Barometer	Aneroid barometer
CondSensor	Specific conductance by conductivity sensor
DataLogger	Data Logger (transducer)
EPA_120.1	Specific conductivity (conductance) by conductivity meter @ 25 deg C
EPA_150.1	pH, Electrometric
EPA_360.2	Dissolved Oxygen (DO) by Modified Winkler Full Bottle
Jackson	Jackson candle turbidimeter
LabCalc	Numerical value was calculated in lab from other data available.
pH_glass	pH using glass electrode
pH_meter	Field pH meter/electrode
SM2510B	Specific conductivity (field method)
SM4500H+B	pH by Electrometric Method
SM4500OC	Dissolved Oxygen (DO) by Winkler (Azide Modification)
StageRating	Estimated using a stage-discharge rating curve
StreamGage	Gaging station
THERM	Thermometer (mercury)
Thermistor	Thermistor
Turbidimeter	Nephelometric turbidimeter
Unk	Unkown
UVAD	UV Absorbance of a specific wave length with a UV detector

field_prep_method	description
<63_um	A fraction of <63- μ m obtained by sieving a bulk sample aliquot for 15 min through a 63- μ m polyester screen
ADS_2mm	Air dried for two days and sieved through #10 (2 mm) mesh.
Centifuged	Centrifuged
CFP	Centrifuged, Filtered, and Preserved
DFO_Disct	Environment Canada's dissection protocol
F	Filtered
FDPS_2mm	Freezed dried and sieved through 2 mm polyester screen to remove large material
FP	Filtered and Preserved
	Flushed and purged with pure nitrogen gas. Centrifuged. Filtered through 0.45 micron filter.
N_FCFA	Acidified with ultra-pure nitric acid.
N_FCFr	Flushed and purged with pure nitrogen gas. Centrifuged. Frozen dry with dry ice.
USEPA_Dsct	USEPA 2000 dissection protocol
WetSieved	Wet sieved

geometry_type	description
Line	Line features
Multiline	Multi-part line features
Multipoint	Multi-part point features
Multipoly	Multi-part polygon features
Point	Point features
Polygon	Polygon features
Raster	Raster

guideline_type	description
freshwater	freshwater
marine	marine

lab	lab_name	street	city	state	postal_code	contact	province	country
A4 Scienti	A4 Scientific							
ALS	ALS Environmental	201-1571 Bellevue Ave.	West Vancouver		V7V 1A6	Rob Hoogendoorn		
ALS_LabGrp	ALS Laboratory Group							
ALTA	ALTA ANALYTICAL LABORATORY INC							
ARI	Analytical Resources, Inc.							
ASL	CH2M-Hill bioassay laboratory							
Bonner	Bonner							
Cantest	Cantest	4606 Canada Way	Burnaby		V5G 1K5			
CAS_K	Columbia Analytical Services, Kelso		Kelso	WA				
CASH	Columbia Analytical Services, Houston	19408 Park Row, Suite 320	Houston	TX	77084			
Ceimic Cor	Ceimic Corporation							
EcyMan	Ecology Manchester Lab		Manchester	WA				
eLab	e-Lab, Inc.		Houston	TX				
EMSL_SL	EMSL Analytical, Inc., San Leandro	2235 Polvorosa Ave, Suite 230	San Leandro	CA	94577	Daniel Kocher		
ENSECO	Enseco, West Sacramento, CA (n							
EPA_ERL	EPA Environmental Research Lab							
Field	Field Lab							
Laucks	LAUCKS TESTING LABS SEATTLE							
LLL	Lawrence Livermore Laboratory							
Manchester	Manchester Environmental Laboratory							
Maxxam	Maxxam							
NWA	Northwest Aquatic Sciences							
NWDLS	North Water District Laboratory Services							
PacAna	PACIFIC ANALYTICAL							
PACE	PACE							
		5-11720 Voyageur Way						
		5-11720 Voyageur Way						
		RICHMOND, British Columbia						
PacSoil	Pacific Soil Analysis Inc	V6X 3G9	Richmond		V6X 3G9			
Paradigm A	Paradigm Analytical Labs							
PSC	PSC Philips Analytical Laboratory							
Rosa	Rosa Environmental & Geotechnical Lab		Seattle	WA				
Sentinel	Sentinel Inc.		Huntsville	AL				
SRL-W	Savannah River Laboratory (Western Region Protocol)							
STL	STL							
TriLabInc	TRIANGLE LABORATORIES INC							
Unk	Unknown							
Unk_USGS	USGS unknown lab							
USGS_CERC	USGS Columbia Environmental Research Center		Columbia	MO				
USGS_ML	USGS Minerals Laboratory		Denver	CO				
USGS_WWSC	USGS Washington Water Science Center, Field Service Unit		Lakewood	WA				
USGSD	U.S. Geological Survey laboratory in Denver, Colorado		Denver	CO				
WAS	Warfield Analytical Services							
WESTON	WESTON Laboratory		Carlsbad	CA				
Xenco	Xenco							

lab_extraction_method	description
0.1 N HCL	0.1 N HCL extract
AcHx	Acetone/Hexane extraction
APDC_MIBK	1-pyrrolidinedicarbothioic acid and methyl isobutyl ketone
ARD	aqua regia digestion
Bray	Bray (NH ₄ F) extraction
CaCl ₂	Calcium chloride extract
CH ₃ COONH ₄	Ammonium acetate extract
CLAA	CLAA
CLFAA	CLFAA
EPA3050B	EPA strong acid digestion
EPA3520C	EPA3520C
EPA3535	Solid-Phase Extraction
EPA3535A	Solid-Phase Extraction
EPA3541	Automated Soxhlet Extraction
EPA5030	Purge-and-Trap for Aqueous Samples
Meth	Methanol extraction
Recov	Acid digestion for total recoverable analyses
SALM	Strong Acid Leachable Metals (SALM) drying the sample at 60°C, sieving using a 2-mm mesh sieve, and digestion using a mixture of hydrochloric and nitric acids.
SEM	Simultaneously extractable metals
SSE	Sequential Selective Extraction (European Commission of Standards, Measurements, and Testing - Rauret et al., 2001)
StrongAc	Strong acid digestion
T20	Total digestion using 4 acids: hydrochloric, nitric, perchloric, and hydrofluoric acids (lab code T20 as described in Briggs and Meier, 2002)

instrument_type	description
BALANCE	Balance
COLOR	colormetric
CVAA	cold vapor atomic absorption
D2216	Water (Moisture) Content of Soil and Rock by Mass
D854	Specific Gravity of Soil Solids by Water Pycnometer
GC	gas chromatography
GC/ECD	gas chromatography/electron capture detector
GC/MS	gas chromatography/mass spectrometry
GC/MS SIM	gas chromatography/mass spectrometry with selective ion monitoring
GRAV	gravimetric
HRGC/HRMS	high resolution gas chromatography/high resolution mass spectrometry
ICP-AES	inductively coupled plasma atomic emission spectroscopy
ICP-MS	inductively coupled plasma mass spectrometry
Lipids	Lipids
PLM	polarized light microscope
TOC-C	total organic carbon by combustion
WalkleyBlk	Walkley-Black

lab_anal_method	description
110dry	dried at 110°C
1N AmmAcet	1N ammonium acetate, pH=7
6010	EPA Method 6010 (ICP)
8081	EPA SW846 8081 for PCBs
8260	EPA SW846 8260 for VOCs
8270	EPA SW846 8270 for SVOCs
9060	EPA SW846 9060 for TOC
AAS	Atomic Absorption Spectrometry
AD	AD
AES	Atomic Emission Spectrometry
AOAC996.06	Association of Analytical Chemists method for lipids
ASF	Automated Segmented Flow Spectrophotometry
ASTMD42263	ASTM D 422-63 for grain size
AVS	Acid-Volatile Sulfide
CanSoil	CanSoil
CARB435	Asbestos by PLM
CLP SOW	based on SW846 method 6010B/7471
CLP_LOW	CLP_LOW
COLOR	colorimetric determination
CombCO2	CombCO2
CombGas	CombGas
CombSO2	Combustion at 1350°C - measurement of evolving SO2 using infrared detector
CombVol	CombVol
CondCell	Conductivity Cell
CSAC	Calibration self-absorption curves prepared using radioactive standards
CVAA	Cold Vapor Atomic Absorption
CVAAS	Cold Vapour Atomic Absorption Spectrophotometry
CVAF	Cold Vapour Atomic Fluorescence
D2216	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
D422	D422
D854	Standard Test Methods for Specific Gravity of Soil Solids by Water Pycnometer
DNC	Delayed Neutron Counting
EP1_206.2	EP1_206.2
EP1_270.2	EP1_270.2
EP1_279.2	EP1_279.2
EPA_160.1	TDS; Residue, Filterable (Gravimetric, Dried at 180 °C)

EPA_160.2	Residue, Total, Gravimetric, Dried at 103-105 Deg-C, EPA160.2
EPA_160.3	Residue, Total, Gravimetric, Dried at 103-105 Deg-C, EPA160.3
EPA_1600	Enterococci in Water by Membrane Filtration Using mEI Agar
EPA_200.7	EPA_200.7
EPA_200.8	EPA 200.8 (ICP-MS)
EPA_202.1	EPA_202.1
EPA_206.2	EPA_206.2
EPA_213.2	EPA_213.2
EPA_220.2	EPA_220.2
EPA_236.1	EPA_236.1
EPA_239.2	EPA_239.2
EPA_243.1	EPA_243.1
EPA_245.5	EPA_245.5
EPA_245.7	Mercury by Cold Vapor Atomic Fluorescence (CVAF)
EPA_279.2	EPA 279.2 (GFAA)
EPA_289.2	EPA_289.2
EPA_310.2	Alkalinity (Colorimetric, Automated, Methyl Orange)
EPA_350.1	Nitrogen as Ammonia, Colorimetric, Automated Phenate
EPA_351.2	Total Kjeldahl Nitrogen Colorimetric, Semi-Automated Block Digester
EPA_353.2	Nitrogen, Nitrate-Nitrite (Colorimetric, Automated Cadmium Reduction)
EPA_360.2	Dissolved Oxygen (DO) by Modified Winkler Full Bottle
EPA_365.1	Phosphorus, All Forms (Colorimetric, Automated, Ascorbic Acid)
EPA_365.3	Phosphorus, (All Forms), Colorimetric, Ascorbic Acid, Two Reagent
EPA_415.1	Organic Carbon, Total, Combustion or Oxidation
EPA_415.2	TOC
	Determination of Carbon and Nitrogen in Sediments and Particulates of Estuarine/Coastal Waters
EPA_440	Using Elemental Analysis
EPA_7740	EPA_7740
EPA1613A	EPA Standard Method for High Resolution Analysis of Dioxins/Furans in Water
EPA1613B	EPA Standard Method for High Resolution Analysis of Dioxins/Furans
	Chlorinated Biphenyl Congeners in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS
EPA1668A	(revision A)
EPA245.1	Mercury (Cold Vapor, Manual)
Evapour	Evaporation
FES	Flame Emission Spectroscopy
Filter	Filtration
Freeze Dry	Freeze Dried Solids
FS	Fluorometry (Fluorescence Spectroscopy)

FTC	Flow-through centrifuge
g_count	gamma counting
GC_ECD	Gas Chromatography with Electron Capture Detector
GC_FID	Gas Chromatography with Flame Ionization Detector
GC_MS	Gas Chromatography Mass Spectrometry
GFAAS	Graphite Furnace Atomic Absorption Spectrometry
Grav	Grav
HGAAS	Hydride Generation Atomic Absorption Spectroscopy
Hi-Bismuth	Hi-Bismuth reducible method
HiVol_PM10	Total Suspended Particulate matter less than 10 um in diameter trapped in a high volume air sampler.
HydGen	HydGen
IC	Ion Chromatography
ICAP	Inductively Coupled Argon Plasma Spectroscopy
ICP_MS	ICP Mass Spectrometer
ICP_OES	Inductively coupled plasma – optical emission spectrometer
ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) for Metals and Trace Elements, SW6010
INAA	instrumental neutron activation analysis
ION	sodium carbonate-potassium nitrate fusion-specific ion electrode
IR	Infrared analyses
ISE	Ion selective Electrode
KFstrep_MF	KF streptococcus MF
Klute	Klute, A. 1986. Water retention: Laboratory methods. Agronomy No. 9. American Society of Agronomy.
LECO CR 12	LECO CR 12 carbon analyzer
LECO S	LECO Sulfur Analyser
LloydKahn	Determination of Total Organic Carbon in Sediment
mEndo_MF	m-Endo MF
mEnterococcus MF	m-Enterococcus MF
mFC_MF	mFC MF
NA	Not applicable (lab calculation or non-specified analytical method)
NAA	Neutron Activation Analysis
NADNC	Neutron Activation with Delayed Neutron Counting
NOAA LIPID	NOAA LIPID
PartSize	Particle size is determined using the pipette method. The sand content is determined by wet sieving.
Perkin-Elm	Perkin-Elmer atomic absorption spectrophotometer

pH	pH
pH_meter	Potentiometric pH meter
PID	PID
Planchet_C	Planchet count
PSEP	PSEP
	Puget Sound Estuary Protocols, Conventional Sediment Variables, Particle/Grain Size by Sieve-
PSEP_GrSz	Pipette, 1986, Minor Rev. 2003
PSEP_TOC	PSEP_TOC
PSEP_TOCM	PSEP_TOCM
Radon	Radon method
Sieved	Dry sieved
SievePipet	SievePipet
SM2510B	Specific conductivity
SM2540D	Total Suspended Solids (TSS) Dried at 103 -105 deg C
SM4500NB	Total Persulfate Nitrogen
SM4500NH3H	Nitrogen (as Ammonia, NH3) by Flow Injection Analysis
SM4500NO3I	Nitrogen (Nitrate, NO3/Nitrite, NO2) by Cadmium Reduction Flow Injection Method
SM4500PG	Phosphorus/Orthophosphate by Flow Injection Analysis
SM4500PI	Total Phosphorus by In-Line UV/Persulfate Digestion and Flow Injection Analysis
SM5310C	Organic Carbon by Persulfate-Ultraviolet or Heated-Persulfate Oxidation
SM9222D	Fecal Coliform by Membrane Filtration using mFC Medium
	Contract Laboratory Program Statement Of Work for Multi-Media, Multi-Concentration Dioxins and
SOWDLM01.4	Furans Analysis
	Contract Laboratory Program Statement Of Work for the isolation, detection, and quantitative
	measurement of 23 target analyte metals (including mercury) and cyanide in both water and
SOWILM05.3	soil/sediment environmental samples. Analyses are performed using Induct
	Contract Laboratory Program Statement Of Work for Multi-Media, Multi-Concentration for Organic
SOWOLM04.3	Analysis
SpectrpPho	Spectrophotometrically
SW6020	SW-846 Inductively Coupled Plasma-Mass Spectrometry
SW7470A	Mercury in Liquid Waste (Manual Cold-Vapor Technique)
SW7471	SW-846 Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)
SW8082	SW-846 Polychlorinated Biphenyls (PCBs) by Gas Chromatography
	Polychlorinated Dibenzo-P-Dioxins And Polychlorinated Dibenzofurans By High Resolution Gas
SW8280	Chromatography/Low Resolution Mass Spectrometry (HRGC/LRMS)
	Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs) by High-
SW8290	Resolution GC/High Resolution MS

SW9012	Total and Amenable Cyanide (Automated Colorimetric)
THERM	Thermometrically
Titration	Titration
Turbid	turbidimetry
TX1005	TCEQ Method used in lieu of EPA Method 418.1 for the analysis of total petroleum hydrocarbons
Unk	Unknown
WalkleyBlk	Walkley-Black method for the determination of total organic carbon
WetOx	Wet oxidation
XRF	X-Ray Fluorescence

lab_prep_method	description
0_45u	Trapped on 0.45u membrane filter
-100 Mesh	Sieved to <150 microns (-100 mesh) and dried at 110°C. Analytical sample comprises fractions 500 to 1000 um.
10HCl	Treatment with 10% HCl to remove inorganocarbonates
2mm sieve	Air dried or dried at < 40C, pinned and sieved through a 2mm sieve
BlockDgst	3051 USEPA method: microwave assisted acid digestion of sediments, sludges, soils and oils.
CARB435	Block digest
Dry sieved	Milling
Jirka	Dry sieved
Kjeldahl	Digestion using the modified Jirka method
modJirka	Kjeldahl digestion
NaOCl	Digestion using the modified Jirka method
PartSize	Sodium hypochlorite treatment to destroy organic matter.
Sieved65um	Organic matter is removed using sodium hypochlorite
uKjeldahl	Sieved to less than 65 um.
WetOxDig	Microkjeldahl Digestion
	Non-heated sample subjected to an oxidative digestion, followed by reduction and aeration.

lcs_type	description
L	Liquid
S	Solid

lab_leach_method	description
TCLP	Toxicity Characteristic Leaching Procedure

lesion_severity	description
Absent	Absent
Evaluated	Evaluated
Minor	Minor
Moderate	Moderate
Present	Present
Severe	Severe

lesion_type	description	carcinoma
ATLY	Autolysis	FALSE
BCF	Basophilic cellular focus	TRUE
BGP-HP	Blue-green pigment (lipofuscin) in cytoplasm of hepatocytes	FALSE
BGP-ST	Blue-green pigment (lipofuscin) in cells lining seminiferous tubules	FALSE
BGR	Branchial granulomatous inflammation	FALSE
BLSP	Black spots	FALSE
CBH	Cholangitis/biliary hyperplasia	FALSE
CC	Cutaneous copepod	FALSE
CCF	Clear cellular focus	TRUE
CFF	Caudal fin fraying	FALSE
CFR	Caudal fin reddening	FALSE
CON	Congestion	FALSE
CUE	Cysts of unknown etiology	FALSE
DFM	Deformed	FALSE
DSR	Diffuse skin reddening	FALSE
ECF	Eosinophilic cellular focus	TRUE
EGL	Eosinophilic granular leukocytes	FALSE
EPC	Epitheliocystis	FALSE
ERS	Erosion	FALSE
EXPHTH	Exophthalmic	FALSE
FBG	Foreign body granuloma	FALSE
FBR	Fin base reddening	FALSE
FDC	Focal discoloration	FALSE
FPL	Focal/multifocal parenchymal leukocytes	FALSE
FRAY	Frayed	FALSE
FSR	Focal skin reddening	FALSE
GD	Glycogen depletion	FALSE
GGR	Gonadal granulomatous inflammation	FALSE
GLF	Gill lamellar fusion	FALSE
GLH	Gill lamellar hyperplasia	FALSE
GLT	Gill lamellar telangiectasis	FALSE
GMA	Gonadal macrophage aggregates	FALSE
HMR	Bleeding	FALSE
HVW	Hyalinization of vessel walls	FALSE
ICH	Diffuse opaque epicardium consistent with a parasite reaction	FALSE
KGR	Granulomatous inflammation	FALSE
KMA	Pigmented macrophage aggregates	FALSE

LCH	Leeches	FALSE
LEL	Lamellar epithelial lifting	FALSE
LGR	Liver granulomas	FALSE
LIP	Lipidosis	FALSE
LLG	Growth on lower lip	FALSE
LMA	Macrophage aggregates	FALSE
MIN	Mineralization	FALSE
MIS	Missing	FALSE
MRGN	Marginate	FALSE
NEO	Neoplasia (neoplasms)	TRUE
NPH	Nephritis	FALSE
NRM	Normal	FALSE
OAI	Atresia of primary (unfolled) follicles;	FALSE
OAM	Atresia of yolked (maturing or mature) follicles;	FALSE
OFF	Other fin fraying	FALSE
OPQ	Opaque	FALSE
OTHER	Other	FALSE
PALE	Pale	FALSE
PCL	Pericholangial lymphocytes/leukocytes	FALSE
PIG	Abundant well-demarcated cytoplasmic green pigment (hemosiderin)	FALSE
PRST	Parasites	FALSE
PVL	Perivascular lymphocytes/leukocytes	FALSE
RAK	Raker inflammation	FALSE
RGR	Raised growths	TRUE
RLSN	Reddened lesions	FALSE
RTN	Renal tubular necrosis	FALSE
RTR	Renal tubular regeneration	FALSE
SCN	Single cell necrosis	FALSE
SGF	Shiny gill foci at the base of filaments	FALSE
SH	Spongiosis hepatis	FALSE
SLN	Swollen nare	FALSE
SLSH	Slight shorteninc	FALSE
SPDF	Spinal deformities	FALSE
SPM	Spermatocytes	FALSE
TDI	Tubular dilation (of lumen)	FALSE
TEP	Renal tubular epithelial protein droplets	FALSE
TEV	Tubular epithelial vacuolation	FALSE
THR	Thrombosis	FALSE

TMT	Monogenetic trematode	FALSE
ULR	Growth on upper lip	FALSE
WSP	White spots	FALSE

life_stage	description
Adult	Adult
Egg	Egg
Indet	Indeterminate
Juv	Juvenile
Larva	Larva
ND	Not determined
Unknown	Unknown

loc_method	description
Coord	Coordinates from original data source
Design	Set by study design
Dgtz	Digitized from a map or figure
GPS	GPS measurement
Mult	Set by multiple methods
Narr	Estimated based on narrative description and map features
Original	Coordinates from original data source
Study	Set by study-specific data
Survey	Ground survey

loc_type	description
Bank	River bank
Beach	Beach
Regional	Regional
Residential	Residential

material	description
Air	Air
DrinkingWater	Drinking water
FreshWater	Fresh water
Inorg	Non-specific inorganic material
MarineWater	Marine water
Sediment	Sediment (fresh or marine)
Slag	Slag
Soil	Soil
SurfaceWater	Surface water
Tissue	Tissue
Waste	Solid or liquid industrial waste
Water	Water (fresh or marine)

matrix	description
L	Liquid
M	Mixed Liquid and Soild
S	Solid
V	Vapor

meas_basis	description
	Ambient observation, e.g. wind speed - not related to a sample and not to be confused with a field
AmbObs	measurement of a sample.
AsReceived	As received
Dissolved	Dissolved (filtered sample)
DryNoAsh	Ash free dry mass
DryWt	Dry weight
Extrctble	Extractable (not filtered but preserved with concentrated nitric acid)
PerSamp	Per sample
Susp	Suspended
Susp>1um	Suspended (> 1 um)
Susp>40um	Suspended (>40 um)
TOC	oc normalized
Unfilt	Unfiltered (whole water sample)
WetWt	Wet weight

out_flag	description
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N	No
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Y	Yes
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preservative	description
Formalin	Formalin
Frozen	Frozen
H2SO4	Sulfuric acid
HCl	Hydrochloric acid
HgCl2	Mercuric chloride
HNO3	Nitric acid
IsoProp	Isopropanol
Lugols	Lugol's solution
Na2S2O3	Sodium thiosulfate
Na2SO3	Sodium sulfite
NaBis	Sodium bisulfate
NaOH	Sodium hydroxide
None	No preservative used.
ZnAc	Zinc acetate

qa_level	description
NoQA	No quality assurance check performed (completed)
Stage 1	Verification and validation checks for the compliance of sample receipt conditions, sample characteristics (e.g., percent moisture), and analytical results (with associated information).
Stage 2A	Stage 1 validation plus the verification and validation checks for the compliance of sample-related QC.
Stage 2B	Stage 2A validation plus the verification and validation checks for the compliance of instrument-related QC.
Stage 3	Stage 2B validation plus the recalculation of instrument and sample results from the laboratory instrument responses, and comparison of recalculated results to laboratory reported results.
Stage 4	Stage 3 validation plus the evaluation of instrument outputs. Compound and TIC identification is checked.
Unknown	Unknown whether any quality assurance checks have been performed
UnkType	Quality assurance check performed, but type unknown
Validated	Data Verified, Validated, and Assessed for Usability in a Peer-Reviewed Study Report

qc_type	description
BaitBlank	Bait blank (bait used for tissue collection)
BottleBlank	Bottle blank
EquipBlank	Equipment blank
LCS	Laboratory Control Sample
LCSDUP	Laboratory Control Sample Duplicate
MatSpike	Matrix spike
MatSpikeDup	Matrix spike duplicate
MethodBlank	Method Blank
Natural	Natural sample; not a QC sample
ReagBlank	Reagent blank
RinseBlank	Rinsate blank
SRM	Standard Reference Material
TripBlank	Trip blank
WipeBlank	Wipe blank

resource	description
avian	avian
birds	birds
earthworm	earthworms
H. azteca	H. azteca
humanscs	humans consumption
humansdw	humans drinking water
invert	Invertebrates
mammal	mammal
microorg	microorganisms
plant	plants

river_bank	description
Center	Center of river, between banks
East	East
Left	Left bank (looking upriver)
Mid	Mid
North	North
Right	Right bank (looking upriver)
West	West

sample_material	description	material	matrix
Air	Air	Air	L
Barbels	Barbels	Tissue	S
Body	Body	Tissue	S
Edible	body without guts or shell	Tissue	S
Fillet	Fillet, muscle tissue only	Tissue	S
FilletLfSkOff	Fillet: left side, skin off	Tissue	S
FilletLfSkOn	Fillet: left side, skin on	Tissue	S
FilletRtSkOff	Fillet: right side, skin off	Tissue	S
FilletRtSkOn	Fillet: right side, skin on	Tissue	S
FilletSkOff	Fillet, skin off	Tissue	S
FilletSkOn	Fillet, skin on (no scales if large)	Tissue	S
Fins	Fins	Tissue	S
FishGullet	Fish gullet	Tissue	S
FishOffal	Fish organs	Tissue	S
ForestSoil	Forest soil	Soil	S
GrassSoil	Grass soil	Soil	S
Groundwater	Groundwater	Water	L
GutlessBody	Gutless whole body	Tissue	S
Head	Head	Tissue	S
Leachate	Leachate	Water	L
LeftEye	Left eye	Tissue	S
LeftGill	Left gill	Tissue	S
Opercula	Opercula	Tissue	S
Periphyton	Periphyton	Tissue	S
Porewater	Sediment porewater	Water	L
Porewater_xxx	PoreWater	Water	L
Remainder	remaining tissue after fillet or edible part has been removed	Tissue	S
ResidentialSoil	Residential soil	Soil	S
RightEye	Right eye	Tissue	S
RightGill	Right gill	Tissue	S
RinseWater	Rinsate water (for QC)	Water	L
Sed and Surfwater	Sediment with intact surface water	Water	M
Sediment	Sediment	Sediment	S
Sediment<177um	Sediment < 177 um	Sediment	S
Sediment<2mm	Sediment < 2 mm	Sediment	S
Sediment<62.5um	Sediment < 62.5 um	Sediment	S
Sediment<63um	Sediment fraction < 63um	Sediment	S

Sediment<75um	Sediment < 75 um	Sediment	S
Sediment>75um	Sediment > 75 um	Sediment	S
Slag	Slag	Slag	S
Sludge	Sludge	Waste	M
Soil	Soil	Soil	S
StomachContents	Material removed from stomach of organism	Tissue	S
Stormwater	water runoff collected after a precipitation event	Water	L
SulfateBlank	Sulfate blank (for lab QC analyses)	Inorg	S
Supernatant	Supernatant	Water	L
Surfwater	Surface water	Water	L
SuspendedSed	Suspended sediment	Sediment	S
Talus	Talus	Soil	S
TissBlank	Tissue blank (for lab QC analyses)	Tissue	S
TransitionalSoil	Transitional soil	Soil	S
UrbanSoil	Urban soil	Soil	S
Wastewater	Effluents or other industrial waste	Waste	L
Water	Water	Water	L
WholeFish	Whole fish	Tissue	S
WholeFishEst	Whole fish estimated from measurements of individual tissues	Tissue	S
Wipes	Equipment wipes (for field QC analyses)	Inorg	S

samp_measurement	description
Age	Age
BaromPressure	Barometric pressure
Color	Color
Conductivity	Conductivity
Discharge	Discharge
Discharge_inst	Discharge, instantaneous
Dissolved_gas	Dissolved gas
Dissolved_oxygen	Dissolved oxygen
DO_percent_satur	Dissolved oxygen, percent of saturation
DTW_Level	Depth to water level
Flow_volume	Flow volume
Gage_height	Gage height
Gas_Pressure	Total Gas Pressure
H_ion	Hydrogen ion
Length	Length, e.g. of a fish
Loc_x_section	Distance from left bank looking downstream
Na_Adsorp_Ratio	Sodium adsorption ratio
ORP	RedOx Potential
pH	pH
Precip_total	Precipitation, total
Salinity	Salinity
Sample_Vol	Sample volume
Secchi	Secchi depth
SS_discharge	Suspended sediment discharge
Temp_amb_air	Temperature, ambient air
TempDailyAvg	Temperature, daily average
TempDailyMax	Temperature, daily maximum
TempDailyMin	Temperature, daily minimum
Temperature	Temperature
Turbidity	Turbidity
UV_Abs254	UV Absorbance, 254 nm
UV_Abs280_org	UV Absorbance, 280 nm, organic constituents
Weight	Weight, e.g. of a fish

sample_treatment	description
Chao_Zhou	0.25 M NH ₂ OH HCl treatment at 50°C
incubated	Aqueous elements potential release simulation
	Aqueous elements potential release simulation & Sediment exposure to site water under a Higher
incubated & tumbled	Energy Tumbling experiment

sex	description
B	Both sexes present
F	Female
H	Hermaphrodite
I	Indeterminate
M	Male
N	Not evaluated
X	Female intersex
Y	Male intersex

shipping_method	description
FedEx	Federal Express
Greyhound	Greyhound bus lines
Other	Other: specify in shipping details
Sampler	Transported by the sampler
Trailways	Trailways bus lines
UPS	United Parcel Service

soil_horizon	description
A	Upper layer of topsoil
B	Subsoil
C	C horizon
D	D horizon
E	Eluviated horizon
O	Organic horizon
R	Bedrock

srid	description	srtext
2278	NAD83, TX South Central, GRS 1980 spheroid, feet	"PROJCS["NAD83 / Texas South Central (ftUS)",GEOGCS["NAD83",DATUM["North_American_Datum_1983",SPHEROID["GRS 1980",6378137,298.257222101,AUTHORITY["EPSG","7019"]],AUTHORITY["EPSG","6269"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994328,AUTHORITY["EPSG","9122"]],AUTHORITY["EPSG","4269"]],PROJECTION["Lambert_Conformal_Conic_2SP"],PARAMETER["standard_parallel_1",30.28333333333333],PARAMETER["standard_parallel_2",28.38333333333333],PARAMETER["latitude_of_origin",27.83333333333333],PARAMETER["central_meridian",-99],PARAMETER["false_easting",1968500],PARAMETER["false_northing",13123333.333],UNIT["US survey foot",0.3048006096012192,AUTHORITY["EPSG","9003"]],AUTHORITY["EPSG","2278"]]"
2285	NAD83, WA State Plane North, GRS 1980 spheroid, feet	PROJCS["NAD83 / Washington North (ftUS)",GEOGCS["NAD83",DATUM["North_American_Datum_1983",SPHEROID["GRS1980",6378137,298.257222101,AUTHORITY["EPSG","7019"]],AUTHORITY["EPSG","6269"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994328,AUTHORITY["EPSG","9122"]],AUTHORITY["EPSG","4269"]],PROJECTION["Lambert_Conformal_Conic_2SP"],PARAMETER["standard_parallel_1",48.73333333333333],PARAMETER["standard_parallel_2",47.5],PARAMETER["latitude_of_origin",47],PARAMETER["central_meridian",-120.83333333333333],PARAMETER["false_easting",1640416.667],PARAMETER["false_northing",0],UNIT["US survey foot",0.3048006096012192,AUTHORITY["EPSG","9003"]],AUTHORITY["EPSG","2285"]]"
2286	NAD83, WA State Plane South, GRS 1980 spheroid, feet	PROJCS["NAD83 / Washington South (ftUS)",GEOGCS["NAD83",DATUM["North_American_Datum_1983",SPHEROID["GRS 1980",6378137,298.257222101,AUTHORITY["EPSG","7019"]],AUTHORITY["EPSG","6269"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994328,AUTHORITY["EPSG","9122"]],AUTHORITY["EPSG","4269"]],PROJECTION["Lambert_Conformal_Conic_2SP"],PARAMETER["standard_parallel_1",47.33333333333334],PARAMETER["standard_parallel_2",45.83333333333334],PARAMETER["latitude_of_origin",45.33333333333334],PARAMETER["central_meridian",-120.5],PARAMETER["false_easting",1640416.667],PARAMETER["false_northing",0],UNIT["US survey foot",0.3048006096012192,AUTHORITY["EPSG","9003"]],AUTHORITY["EPSG","2286"]]"

3005 NAD83, Albers Equal Area	<pre>"PROJCS["NAD83 / BC Albers",GEOGCS["NAD83",DATUM["North_American_Datum_1983",SPHEROID["GRS 1980",6378137,298.257222101,AUTHORITY["EPSG","7019"]],AUTHORITY["EPSG","6269"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994328,AUTHORITY["EPS G","9122"]],AUTHORITY["EPSG","4269"]],PROJECTION["Albers_Conic_Equal_Area"],PARAMETER["sta ndard_parallel_1",50],PARAMETER["standard_parallel_2",58.5],PARAMETER["latitude_of_center",45],PARAMETER["longitude_of_center",- 126],PARAMETER["false_easting",1000000],PARAMETER["false_northing",0],UNIT["metre",1,AUTHO RITY["EPSG","9001"]],AUTHORITY["EPSG","3005"]]"</pre>
4152 NAD83 (HARN), GRS 1980 spheroid, decimal degrees	<pre>GEOGCS["NAD83(HARN)",DATUM["NAD83_High_Accuracy_Regional_Network",SPHEROID["GRS 1980",6378137,298.257222101,AUTHORITY["EPSG","7019"]],AUTHORITY["EPSG","6152"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994328,AUTHORITY["EPS G","9122"]],AUTHORITY["EPSG","4152"]]"</pre>
4267 NAD27, Clarke 1866 spheroid, decimal degrees	<pre>GEOGCS["NAD27",DATUM["North_American_Datum_1927",SPHEROID["Clarke 1866",6378206.4,294.9786982138982,AUTHORITY["EPSG","7008"]],AUTHORITY["EPSG","6267"]],PRI MEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994328,AUTHORIT Y["EPSG","9122"]],AUTHORITY["EPSG","4267"]]"</pre>
4269 NAD83, GRS 1980 spheroid, decimal degrees	<pre>GEOGCS["NAD83",DATUM["North_American_Datum_1983",SPHEROID["GRS 1980",6378137,298.257222101,AUTHORITY["EPSG","7019"]],AUTHORITY["EPSG","6269"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994328,AUTHORITY["EPS G","9122"]],AUTHORITY["EPSG","4269"]]"</pre>
4326 WGS84, WGS84 spheroid, decimal degrees	<pre>GEOGCS["WGS 84",DATUM["WGS_1984",SPHEROID["WGS 84",6378137,298.257223563,AUTHORITY["EPSG","7030"]],TOWGS84[0,0,0,0,0,0],AUTHORITY["EPS G","6326"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994 328,AUTHORITY["EPSG","9122"]],AUTHORITY["EPSG","4326"]]"</pre>
26911 UTM Zone 11N, NAD83, GRS 1980 spheroid, meters	<pre>"PROJCS["NAD83 / UTM zone 11N",GEOGCS["NAD83",DATUM["North_American_Datum_1983",SPHEROID["GRS 1980",6378137,298.257222101,AUTHORITY["EPSG","7019"]],AUTHORITY["EPSG","6269"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994328,AUTHORITY["EPS G","9122"]],AUTHORITY["EPSG","4269"]],PROJECTION["Transverse_Mercator"],PARAMETER["latitud e_of_origin",0],PARAMETER["central_meridian",- 117],PARAMETER["scale_factor",0.9996],PARAMETER["false_easting",500000],PARAMETER["false_n orthing",0],UNIT["metre",1,AUTHORITY["EPSG","9001"]],AUTHORITY["EPSG","26911"]]"</pre>

subsamp_type	description
Biota	Biological fraction of a sample (e.g., benthic macroinvertebrates)
Entire	Entire main sample
HorizSub	Horizontal subsample (e.g., a subcore from a box core)
Partition	A subset of the material or items collected (e.g., water from a Niskin bottle or fish from a trawl)
PhysFract	Physical fraction of a sample (e.g., a screened size fraction of sediment)
TissueType	A specific tissue type
VertSect	Vertical section (e.g., a core horizon)

taxon_code	kingdom	phylum	tax_class	subclass	superorder	tax_order	suborder	superfamily	family	subfamily	genus	species	subspecies	common_name	itis_tsn
161094	Animalia	Chordata	Actinopterygii	Neopterygii		Semionotiformes			Lepisosteidae		Lepisosteus	osseus		longnose gar	
161095	Animalia	Chordata	Actinopterygii	Neopterygii		Semionotiformes			Lepisosteidae		Lepisosteus	oculatus		spotted gar	
161736	Animalia	Chordata	Actinopterygii	Neopterygii	Clupeomorpha	Clupeiformes	Clupeoidei		Clupeidae	Dorosomatinae	Dorosoma			shad	
163344	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Cypriniformes		Cyprinoidea	Cyprinidae		Cyprinus	carpio		common carp	
163537	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Cypriniformes		Cyprinoidea	Cyprinidae		Ctenopharyngodon	idella		grass carp	
163955	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Cypriniformes		Cobitoidea	Catostomidae	Ictiobinae	Ictiobus	bubalus		smallmouth buffalo	
163995	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Siluriformes			Ictaluridae		Ictalurus	furcatus		catfish	
163997	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Siluriformes			Ictaluridae		Ictalurus	punctatus		blue catfish	
163998	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Siluriformes			Ictaluridae		Ictalurus	punctatus		channel catfish	
164029	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Siluriformes			Ictaluridae		Pylodictis	olivaris		flathead catfish	
164034	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Siluriformes			Ictaluridae		Ameiurus			bullhead	
164157	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Siluriformes			Ariidae					sea catfishes	
164159	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Siluriformes			Ariidae		Bagre	marinus		gafftopsail catfish	
165651	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Cyprinodontiformes	Cyprinodontoidei		Fundulidae		Fundulus	grandis		Gulf killifish	165651
165992	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Atheriniformes			Atherinopsidae	Menidiinae	Menidia			silverside minnow	
167680	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Moronidae		Morone	saxatilis		striped bass	
167681	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Moronidae		Morone	hybrid X chrysops		hybrid striped bass	
167682	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Moronidae		Morone	chrysops		white bass	
168166	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Centrarchidae		Pomoxis	annularis		white crappie	
169189	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Sparidae		Archosargus	probatocephalus		sheepshead	
169239	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Sciaenidae		Cynoscion	nebulosus		spotted seatrout	
169243	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Sciaenidae		Cynoscion	arenarius		sand seatrout	
169283	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Sciaenidae		Micropogonias	undulatus		Atlantic croaker	
169288	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Sciaenidae		Pogonias	cromis		black drum	
169290	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Sciaenidae		Sciaenops	ocellatus		red drum	
169364	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Sciaenidae		Aplodinotus	grunniens		freshwater drum	
170334	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Mugiliformes			Mugilidae		Mugil			mullet	
170335	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Mugiliformes			Mugilidae		Mugil	cephalus		striped mullet	
172707	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Pleuronectiformes	Pleuronectoidei							flounder	
172738	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Pleuronectiformes	Pleuronectoidei		Paralichthyidae		Paralichthys	lethostigma		southern flounder	
201897	Animalia	Chordata	Actinopterygii	Neopterygii		Semionotiformes			Lepisosteidae		Atractosteus	spatula		alligator gar	
551680	Animalia	Arthropoda	Malacostraca	Eumalacostraca	Eucarida	Decapoda	Dendrobranchiata	Penaeoidea	Penaeidae		Litopenaeus	setiferus		white shrimp	
680665	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Siluriformes			Ariidae		Ariopsis	felis		hardhead catfish	
79872	Animalia	Mollusca	Bivalvia	Pteriormorphia		Ostreoida			Ostreidae		Crassostrea	virginica		eastern oyster	
80962	Animalia	Mollusca	Bivalvia	Heterodonta		Veneroida		Mactroidea	Mactridae		Rangia	cuneata		common rangia	80962
95602	Animalia	Arthropoda	Malacostraca	Eumalacostraca	Eucarida	Decapoda	Dendrobranchiata	Penaeoidea	Penaeidae					shrimp	
98696	Animalia	Arthropoda	Malacostraca	Eumalacostraca	Eucarida	Decapoda	Pleocyemata	Portunoidea	Portunidae		Callinectes	sapidus		blue crab	
CatoMacrocheilus											Catostomus	macrocheilus		Largescale sucker	
CerioDubia	Animalia	Arthropoda	Branchiopoda	Phyllopoda		Diplostraca	Cladocera		Daphniidae		Ceriodaphnia	dubia		Daphnia	
ChiroTentans	Animalia	Arthropoda	Insecta	Pterygota		Diptera	Nematocera		Chironomidae	Chironominae	Chironomus	dilutus		Midge	
CoreClupeiformis											Coregonus	clupeiformis		Lake Whitefish	
HyalAzteca	Animalia	Arthropoda	Malacostraca	Eumalacostraca	Peracarida	Amphipoda	Gammaridea		Hyalellidae		Hyalella	azteca			
LotaLota											Lota	lota		Burbot	
OnchoMykiss											Onchorhynchus	mykiss		Rainbow trout	
OnchoMykissHatch											Onchorhynchus	mykiss	(hatchery)	Rainbow trout (hatchery)	
ProsWilliamsoni											Prosopium	williamsoni		Mountain whitefish	
StizoVitream											Stizostedion	vitream		Walleye	

unit	description	dimension	as_html	addend1	factor	addend2	display
#	Count	#	#	0	1	0	#
#/100mL	Count per 100 mL	#/V	\$/100mL	0	1	0	#/100mL
cell/ml	cells per milliliter	M/V	cells per mL	0	1	0	cell/mL
CFS	Cubic feet per second	V/T	CFS	0	0.0283168	0	CFS
CFU/cL	Colony Forming Unit per centiliter	#/V	colonies per 10 mL	0	2	0	col/10mL
cm	Centimeters	L	cm	0	0.01	0	cm
code	Code	NA_co	code	0	1	0	code
col/100mL	colonies per 100 milliliters	#/V	colonies per 100 mL	0	1	0	col/100mL
col/1100mL	colonies per 1100 milliliters	#/V	colonies per 1100 mL	0	11	0	col/1100mL
CU	Color unit	Color	CU	0	1	0	CU
days	Days	T	day	0	1	0	days
degC	Degrees Centigrade	T	°C	0	1	0	°C
degF	Degrees Fahrenheit	T	°F	-32	0.555556	0	°F
degrees	Degree of arc	PIAng	degrees	0	1	0	degrees
fg/m3	femtogram per cubic meter	M/V	fg/m³	0	1.00E-09	0	fg/m ³
ft	Feet	L	ft	0	0.3048	0	ft
ft bls	feet below land surface	L	feet below land surface	0	0.3048	0	ft bls
FTU	Formazin Turbidity Unit	FTU	FTU	0	1	0	FTU
g	Grams	M	g	0	1	0	g
g/kg	Grams per kilogram	M/M	g/kg	0	1000	0	g/kg
g/L	Grams per Liter	M/V	g/L	0	1000	0	g/L
g/m2	grams per square meter	M/A	g/m²	0	1	0	g/m ²
g/mL	Grams per milliliter	M/V	g/mL	0	1	0	g/mL
hPa	Hectopascal	Pa	hPa	0	100	0	hPa
in	Inches	L	in	0	0.0254	0	in
JTU	Jackson Turbidity Unit	JTU	JTU	0	1	0	JTU
Kcfs	Kilo cubic feet per second	V/T	Kcfs	0	28.3168	0	Kcfs
kg	Kilograms	M	kg	0	1000	0	kg
kg/m3	Kilograms per cubic meter	M/V	kg/m³	0	1	0	kg/m ³
km	Kilometers	L	km	0	1000	0	km
L	Liters	V	L	0	0.001	0	L
m	Meters	L	m	0	1	0	m
m/s	Meters per second	L/T	m/s	0	1	0	m/s
m3	Cubic meter	V	m³	0	1	0	m ³
m3/sec	Cubic meters per second	V/T	m³/sec	0	1	0	m ³ /sec
mBq/g	millibecquerels per gram	D/M	mBq/g	0	1	0	mBq/g
me/100gm	Milliequivalents per 100 gram	Q/M	me/100gm	0	1	0	me/100gm

me/L	Milliequivalents per liter	Q/V	me/L	0	1	0 me/L
mg/kg	Milligrams per kilogram	M/M	mg/kg	0	1	0 mg/kg
mg/L	Milligrams per liter	M/V	mg/L	0	1	0 mg/L
mg/m ²	milligrams per square meter	M/A	mg/m ²	0	0.001	0 mg/m ²
mg/m ³	Milligrams per cubic meter	M/V	mg/m ³	0	0.001	0 mg/m ³
MGD	Million gallons per day	V/T	MGD	0	25.2364	0 MGD
milligrams	Milligrams	M	mg	0	0.001	0 mg
min	Minutes	T	min	0	1	0 min
mL	Milliliters	V	mL	0	1	0 mL
mm	Millimeters	L	mm	0	0.001	0 mm
mmHg	millimeters of mercury	Pa	mmHg	0	133.322	0 mmHg
MPN/100mL	most probable number per 100 milliliters	#/V	MPN per 100 mL	0	1	0 MPN/100mL
mS/cm	Millisiemens per centimeter	C	mS/cm	0	1000	0 mS/cm
mV	millivolts	EMF	mV	0	1	0 mV
ng	Nanograms	M	ng	0	1.00E-09	0 ng
ng/g	Nanograms per gram	M/M	ng/g	0	0.001	0 ng/g
ng/kg	Nanograms per kilogram	M/M	ng/kg	0	1.00E-06	0 ng/kg
ng/L	Nanograms per liter	M/V	ng/L	0	1	0 ng/L
NTU	Nephelometer Turbidity Unit	NTU	NTU	0	1	0 NTU
ODU	optical density (absorbance) per cm	OA	ODU	0	1	0 ODU
Pa	Pascal	Pa	Pa	0	1	0 Pa
pCi	Picocuries	D	pCi	0	1	0 pCi
pCi/g	picocuries per gram	D/M	pCi/g	0	1	0 pCi/g
pCi/L	picocuries per liter	D/V	pCi/L	0	1	0 pCi/L
PCU	platinum cobalt units	Color	PCU	0	1	0 PCU
percent	Percent by weight	M/M	wt.%	0	10000	0 wt.%
pg	picograms	M	pg	0	1.00E-12	0 pg
pg/g	Picograms per gram	M/M	pg/g	0	1.00E-06	0 pg/g
pg/L	Picograms per liter	M/V	pg/L	0	1.00E-09	0 pg/L
pg/m ³	Picograms per cubic meter	M/V	pg/m ³	0	1.00E-06	0 pg/m ³
ppm	Parts per million by weight	M/M	ppm	0	1	0 ppm
ppt	Parts per thousand	M/M	ppt	0	1000	0 ppt
RU	rel units	Color	RU	0	1	0 RU
SU	Standard pH units	SU	SU	0	1	0 SU
ton/ac-ft	tons per acre-foot	M/V	ton/ac-ft	0	1	0 ton/ac-ft
tons/d	Tons per day	M/T	tons/d	0	1	0 tons/d
ug	Micrograms	M	μg	0	1.00E-06	0 μg
ug/g	Micrograms per gram	M/M	μg/g	0	1	0 μg/g

ug/kg	Micrograms per kilogram	M/M	μg/kg	0	0.001	0 ug/kg
			μg/L			
ug/L	Micrograms per liter	M/V	μg/L	0	0.001	0 ug/L
ug/m3	Micrograms per cubic meter	M/V	μg/m ³	0	1	0 μg/m ³
umol/g	Micromoles per gram	#/M	μM/g	0	1	0 μM/g
Unk	Unknown units	NA_un	(unk)	0	1	0 (unk)
uS	Microsiemens	C	μS	0	1	0 μS
uS/cm	Microsiemens per centimeter	C	μS/cm	0	1	0 μS/cm
volts	Volts	EMF	volts	0	1	0 volts
year	Year	T	year	0	1	0 year

well_material	description
BentGrout	Bentonite grout
IronCasing	Black iron casing
Perf	Casing perforations
PVC	PVC casing
Sandpack	Sand paack
SS_screen	Stainless steel screen
SteelCasing	Steel casing

well_status	description
Abandoned	Abandoned
Active	In current use

well_use	description
Dewatering	Dewatering
Domestic	Domestic water supply for a single household
Fire	Fire protection
Industrial	Industrial supply
Irr	Irrigation
Monitoring	Aquifer monitoring
MultiDom	Domestic water supply for multiple households
Municipal	Municipal water supply
ProdRecov	Free product recovery
Stock	Stock watering

workflow description

Calculated Calculated values saved back into database.

EntryQA QA of data entry only, typically for data from third-party sources; no detailed data validation.

GIS GIS data acquisition and use

LabEDD Receiving, loading, validating data from analytical laboratories.

workflow	workflow_state	description
Calculated	Completed	Completed
Calculated	Unvalidated	Unvalidated
EntryQA	Completed	QA review and any updates have been completed; data are ready for use
EntryQA	InQA	QA review of data entry is underway
EntryQA	JustLoaded	Data have been loaded, QA has not been initiated
EntryQA	QA_updates	Data are being updated following QA review
EntryQA	Received	Data have been received, are not yet entered into the database
GIS	Frozen	Data set has been used for deliverables and is frozen: no further changes are allowed
GIS	InQA	QA review of the data are underway
GIS	QA_updates	Data are being updated following QA review
GIS	Received	Data have been received, QA and any necessary data transformation have not been completed
GIS	Working	Data set is suitable for use in analyses and maps
LabEDD	Completed	Validation updates received and applied
LabEDD	InValidation	DV flat file has been created and sent to validator
LabEDD	JustLoaded	Data have been loaded, validation has not started

method_code	description	lab_leach_method	lab_prep_method	lab_extraction_method	lab_anal_method	source_file	source_lineno
SM2540D	Total Suspended Solids (TSS) Dried at 103 -105 deg C	NA	NA	NA	SM2540D	K1106516_analmethod.csv	2

lab	lab_pkg	anal_type	labsample	material_analyzed	method_code	date_extracted	date_analyzed	mass_gm	vol_ml	source_file	source_lineno
CAS_K	K1106516	Convent	K1106516-001	Water	SM2540D					K1106516_labanal.csv	2
CAS_K	K1106516	Convent	K1106516-002	Water	SM2540D					K1106516_labanal.csv	3
CAS_K	K1106516	Convent	K1106516-003	Water	SM2540D					K1106516_labanal.csv	4
CAS_K	K1106516	Convent	K1106516-004	Water	SM2540D					K1106516_labanal.csv	5
CAS_K	K1106516	Convent	K1106516-MB1	Water	SM2540D					K1106516_labanal.csv	6
CAS_K	K1106516	Convent	K1106516-MB2	Water	SM2540D					K1106516_labanal.csv	7
CAS_K	K1106516	Convent	K1106516-MB3	Water	SM2540D					K1106516_labanal.csv	8
CAS_K	K1106516	Convent	K1106516-MB4	Water	SM2540D					K1106516_labanal.csv	9
CAS_K	K1106516	Convent	K1106516-LCS1	Water	SM2540D					K1106516_labanal.csv	10
CAS_K	K1106516	Convent	K1106516-LCS2	Water	SM2540D					K1106516_labanal.csv	11
CAS_K	K1106516	Convent	K1106516-LCS3	Water	SM2540D					K1106516_labanal.csv	12
CAS_K	K1106516	Convent	K1106516-003DUP	Water	SM2540D					K1106516_labanal.csv	13
CAS_K	K1106516	Convent	K1106516-004DUP	Water	SM2540D					K1106516_labanal.csv	14

lab	lab_cal_batch	instrument_type	instrument_id	initial_cal_date	source_file	source_lineno	cal_batch_id
CAS_K	254185	BALANCE	K-Balance-31		K1106516_labcalbatch.csv	2	1542

lab	lab_pkg	anal_type	anal_begun	anal_completed	analyst	comments	source_file	source_lineno
CAS_K	K1106516	Convent					K1106516_labpkg.csv	2

lab	lab_qc_batch	prep_date	extraction_date	source_file	source_lineno
CAS_K	254185			K1106516_labqcbatch.csv	2

lab	labqc_samp	qc_type	comments	source_file	source_lineno
CAS_K	K1106516-MB1	MethodBlank		K1106516_labqcsamp.csv	2
CAS_K	K1106516-MB2	MethodBlank		K1106516_labqcsamp.csv	3
CAS_K	K1106516-MB3	MethodBlank		K1106516_labqcsamp.csv	4
CAS_K	K1106516-MB4	MethodBlank		K1106516_labqcsamp.csv	5
CAS_K	K1106516-LCS1	LCS		K1106516_labqcsamp.csv	6
CAS_K	K1106516-LCS2	LCS		K1106516_labqcsamp.csv	7
CAS_K	K1106516-LCS3	LCS		K1106516_labqcsamp.csv	8

lab	lab_pkg	anal_type	labsample	material_analyzed	method_code	analyte	meas_basis	lab_rep	meas_value	units	std_dev	detected	detection_limit	quantification_limit	reporting_limit	maximum_limit	lab_flags	comments	lab_qc_batch	lab_cal_batch	source_file	source_lineno	edd_result_ID
CAS_K	K1106516	Convent	K1106516-001	Surfwater	SM2540D	TSS	Unfilt	1	10	mg/L		TRUE	5	5	5				254185	254185	K1106516_labresult.csv	2	196304
CAS_K	K1106516	Convent	K1106516-002	Surfwater	SM2540D	TSS	Unfilt	1	8.5	mg/L		TRUE	5	5	5				254185	254185	K1106516_labresult.csv	3	196305
CAS_K	K1106516	Convent	K1106516-003	Surfwater	SM2540D	TSS	Unfilt	1	7	mg/L		TRUE	5	5	5				254185	254185	K1106516_labresult.csv	4	196306
CAS_K	K1106516	Convent	K1106516-004	Surfwater	SM2540D	TSS	Unfilt	1	9.5	mg/L		TRUE	5	5	5				254185	254185	K1106516_labresult.csv	5	196307
CAS_K	K1106516	Convent	K1106516-003DUP	Surfwater	SM2540D	TSS	Unfilt	2	10.5	mg/L		TRUE	5	5	5		*		254185	254185	K1106516_labresult.csv	6	196308
CAS_K	K1106516	Convent	K1106516-004DUP	Surfwater	SM2540D	TSS	Unfilt	2	11.5	mg/L		TRUE	5	5	5		*		254185	254185	K1106516_labresult.csv	7	196309

lab	labsample	study_id	sample_no	labqc_samp	receipt_date	coc_id	source_file	source_lineno	id
CAS_K	K1106516-001	UpstrmSedLoad	SJUSL001-AS037-N				K1106516_labsample.csv	2	0
CAS_K	K1106516-002	UpstrmSedLoad	SJUSL001-AS038-N				K1106516_labsample.csv	3	0
CAS_K	K1106516-003	UpstrmSedLoad	SJUSL001-AS039-N				K1106516_labsample.csv	4	0
CAS_K	K1106516-004	UpstrmSedLoad	SJUSL001-AS040-N				K1106516_labsample.csv	5	0
CAS_K	K1106516-MB1			K1106516-MB1			K1106516_labsample.csv	6	0
CAS_K	K1106516-MB2			K1106516-MB2			K1106516_labsample.csv	7	0
CAS_K	K1106516-MB3			K1106516-MB3			K1106516_labsample.csv	8	0
CAS_K	K1106516-MB4			K1106516-MB4			K1106516_labsample.csv	9	0
CAS_K	K1106516-LCS1			K1106516-LCS1			K1106516_labsample.csv	10	0
CAS_K	K1106516-LCS2			K1106516-LCS2			K1106516_labsample.csv	11	0
CAS_K	K1106516-LCS3			K1106516-LCS3			K1106516_labsample.csv	12	0
CAS_K	K1106516-003DUP	UpstrmSedLoad	SJUSL001-AS039-N				K1106516_labsample.csv	13	0
CAS_K	K1106516-004DUP	UpstrmSedLoad	SJUSL001-AS040-N				K1106516_labsample.csv	14	0

lab	lab_qc_batch	lcs_id	analyte	meas_basis	lab_rep	lcs_type	true_lcs_conc	meas_lcs_conc	lcs_lowlimit	lcs_highlimit	units	conc_qual	source_file	source_lineno	id
CAS_K	254185	K1106516-LCS1	TSS	Unfilt	1	L	240	244	80	115	mg/L		K1106516_lcs.csv	2	55
CAS_K	254185	K1106516-LCS2	TSS	Unfilt	1	L	240	230	80	115	mg/L		K1106516_lcs.csv	3	56
CAS_K	254185	K1106516-LCS3	TSS	Unfilt	1	L	240	234	80	115	mg/L		K1106516_lcs.csv	4	57

lab	lab_qc_batch	labsample	method_code	analyte	lab_rep	concentration	retention_time	units	lab_flags	source_file	source_lineno
CAS_K	254185	K1106516-MB1	SM2540D	TSS	1	5		mg/L	U	K1106516_methodblank.csv	2
CAS_K	254185	K1106516-MB2	SM2540D	TSS	1	5		mg/L	U	K1106516_methodblank.csv	3
CAS_K	254185	K1106516-MB3	SM2540D	TSS	1	5		mg/L	U	K1106516_methodblank.csv	4
CAS_K	254185	K1106516-MB4	SM2540D	TSS	1	5		mg/L	U	K1106516_methodblank.csv	5

lab	method_code	description	lab_leach_method	lab_prep_method	lab_extraction_method	lab_anal_method	idb_method_code	Note
CAS_K	6020A	Metals by Inductively Coupled Plasma-Mass Spectroscopy	NA	NA	EPA3050B	6020A	SW6020A_3050B	first seen in K1101209
CAS_K	8270CSIM	Semivolatile Organic Compounds by GC/MS Selective Ion Monitoring	NA	NA	EPA3541	8270CSIM	SW8270CSIM_3541	first seen in K1010961
CAS_K	8270CSIM_20	Semivolatile Organic Compounds by GC/MS Selective Ion Monitoring	NA	NA	EPA_3520C	8270CSIM	SW8270CSIM_3520	first seen in K1011383
CAS_K	8270CSIM_20	Semivolatile Organic Compounds by GC/MS Selective Ion Monitoring	NA	NA	EPA3541	8270CSIM	SW8270CSIM_3541	first seen in K1011383
CAS_K	9030M	Sulfide, Acid Soluble (Total) (Distillation, Colorimetric)	NA	2mm sieve	EPA9030B	9030M	9030M_2mm	new
CAS_K	9045D	Soil and Waste pH	NA	2mm sieve	NA	9045D	9045D_2mm	new
CAS_K	ASTMD412982M	Total and Organic Carbon in Water by Temperature Oxidation and Coulometric Detection, Modified for Soils	NA	2mm sieve	NA	ASTMD412982M	D412982M_2mm	new
CAS_K	D412982M	Total and Organic Carbon in Water by Temperature Oxidation and Coulometric Detection, Modified for Soils	NA	2mm sieve	NA	ASTMD41298	D412982M_2mm	
CAS_K	EPA_160.3	Residue, Total, Gravimetric, Dried at 103-105 Deg-C, EPA160.3	NA	2mm sieve	NA	EPA_160.3	EPA160.3_2mm	new coded as presentby the lab
CAS_K	EPA_160.3	Residue, Total, Gravimetric, Dried at 103-105 Deg-C, EPA160.3	NA	NA	NA	EPA_160.3	EPA_160.3	
CAS_K	EPA_8081A	Organochlorine Pesticides by GC/ECD	NA	2mm sieve	EPA3541		8081 EPA8081A_2mm41	new
CAS_K	EPA_8081A	Organochlorine Pesticides by GC/ECD	NA	NA	EPA_3535		8081 EPA8081A_35	new
CAS_K	EPA_8082	Polychlorinated Biphenyls (PCBs) by GC/ECD	NA	2mm sieve	EPA3541		8082 EPA8082_2mm41	new
CAS_K	EPA_8082	Polychlorinated Biphenyls (PCBs) by GC/ECD	NA	NA	EPA_3535		8082 SW8082_3535	new
CAS_K	EPA_8082	Polychlorinated Biphenyls (PCBs) by GC/ECD	NA	NA	EPA3541		8082 SW8082_3541	
CAS_K	EPA_8270C	Semivolatile Organic Compounds by GC/MS	NA	2mm sieve	EPA3541	GC_MS	EPA8270C_2mm41	new
CAS_K	EPA_8270C	Semivolatile Organic Compounds by GC/MS	NA	NA	EPA_3520C	GC_MS	SW8270C_3520C	new
CAS_K	EPA_8270CSIM	Semivolatile Organic Compounds by GC/MS Selective Ion Monitoring	NA	2mm sieve	EPA3541	8270CSIM	8270CSIM_2mm41	new
CAS_K	EPA_8270CSIM	Semivolatile Organic Compounds by GC/MS Selective Ion Monitoring	NA	NA	EPA_3520C	8270CSIM	8270CSIM_20	new
CAS_K	EPA7470A	Mercury in Liquid Waste (Manual Cold-Vapor Technique)	NA	NA	NA	EPA7470A	SW7470A	
CAS_K	EPA7471A	Mercury by Cold Vapor Atomic Fluorescence (CVAF)	NA	2mm sieve	NA	EPA7471A	SW7471A_2mm	new
CAS_K	EPA7471A	Mercury by Cold Vapor Atomic Fluorescence (CVAF)	NA	NA	NA	EPA7471A	SW7471A	new
CAS_K	EPA7471B	Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)	NA	NA	NA	EPA7471B	SW7471B	first seen in K1101209
CAS_K	EPA8081A	Organochlorine Pesticides by GC/ECD	NA	NA	EPA3541	EPA8081A	SW8081A_3541	
CAS_K	EPA8082	Polychlorinated Biphenyls (PCBs) by GC/ECD	NA	NA	EPA3541	EPA8082	SW8082_3541	
CAS_K	EPA8082_35	Polychlorinated Biphenyls (PCBs) by GC/ECD	NA	NA	EPA_3535	EPA8082	SW8082_3535	first seen in K1100165
CAS_K	EPA8082_35	Polychlorinated Biphenyls (PCBs) by GC/ECD	NA	NA	EPA_3535A	EPA8082	SW8082_3535A	first seen in K1100243
CAS_K	EPA8260C	Volatile Organic Compounds by GC/MS	NA	NA	EPA5030	EPA8260C	SW8260C_5030	first seen in K1101236
CAS_K	EPA8270C	Semivolatile Organic Compounds by GC/MS	NA	NA	EPA_3520C	GC_MS	SW8270C_3520C	first seen in K1011127
CAS_K	EPA8270C	Semivolatile Organic Compounds by GC/MS	NA	NA	EPA3541	EPA8270C	SW8270C_3541	first seen in K1101244
CAS_K	EPA8270C	Semivolatile Organic Compounds by GC/MS	NA	NA	EPA3541	GC_MS	SW8270C_3541	
CAS_K	EPA9012A	Total and Amenable Cyanide (Automated Colorimetric)	NA	NA	NA	EPA9012A	SW9012A	
CAS_K	ICP_MS	ICP MS	NA	2mm sieve	EPA3050B	ICP_MS	ICPMS_3050B2mm	new coded as presentby the lab
CAS_K	ICP_MS	ICP MS	NA	NA	EPA3050B	ICP_MS	ICPMS_3050B	new coded as presentby the lab
CAS_K	ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) for Metals and Trace Elements, SW6010	NA	2mm sieve	EPA3050B	ICP-AES	ICPAES_3050B2mm	new coded as presentby the lab
CAS_K	ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) for Metals and Trace Elements, SW6010	NA	NA	CLAA	ICP-AES	ICP-AES_CLAA	new coded as presentby the lab
CAS_K	ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) for Metals and Trace Elements, SW6010	NA	NA	EPA3050B	ICP-AES	ICPAES_3050B	new coded as presentby the lab
CAS_K	ICPAES_CLAA	Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) for Metals and Trace Elements, SW6010	NA	NA	CLAA	ICP-AES	ICP-AES_CLAA	new coded as presentby the lab
CAS_K	ICPMS_3050B	ICP MS	NA	2mm sieve	EPA3050B	ICP_MS	ICPMS_3050B_2mm	
CAS_K	PSEP_GrSz	Puget Sound Estuary Protocols, Conventional Sediment Variables, Particle/Grain Size by Sieve-Pipette, 1986, Minor Rev. 2003	NA	NA	NA	PSEP_GrSz	PSEP_GrSz	present
CAS_K	SM5310C	Total Organic Carbon (Persulfate-UV Oxidation)	NA	NA	NA	SM5310C	SM5310C	new
CASH	1613B	EPA Standard Method for High Resolution Analysis of Dioxins/Furans	NA	NA	NA	EPA1613B	EPA1613B	
SGS NC	E1613_3520	Determination of CDDs/CDFs by HRGC/HRMS	NA	SW3520	SW3520	1613	E1613_3520	new
SGS NC	E1613_3540	Determination of CDDs/CDFs by HRGC/HRMS	NA	SW3540	SW3540	1613	E1613_3540	new
SGS NC	E1614_3520	Determination of BDEs by HRGC/HRMS	NA	SW3520	SW3520	1614	E1614_3520	new
SGS NC	E1614_3540	Determination of BDEs by HRGC/HRMS	NA	SW3540	SW3540	1614	E1614_3540	new
SGS NC	SW1668A_3520	Determination of PCBs by HRGC/HRMS	NA	SW3520	SW3520	1668A	SW1668A_3520	new
SGS NC	SW1668A_3540	Determination of PCBs by HRGC/HRMS	NA	SW3540	SW3540	1668A	SW1668A_3540	new

lab	edd_analtype	idb_analtype
FGS	FGS022	Metals
CAS_K	EPA 1632	Metals
CAS_K	Convent	Convent
CAS_K	Metals	Metals
CAS_K	SVOCs	SVOCs
CAS_K	PestPCB	PestPCB
CAS_K	Radio Chem	Radio_Chem
CAS_K	Radio_Chem	Radio_Chem
CAS_K	PestPCBs	PestPCB

lab	lab_analyte_code	analyte
CAS_K	PCB_cong_66	PCB066
CAS_K	PCB_cong_67	PCB067
CAS_K	PCB_cong_68	PCB068
CAS_K	PCB_cong_7	PCB007
CAS_K	PCB_cong_72	PCB072
CAS_K	PCB_cong_77	PCB077
CAS_K	PCB_cong_78	PCB078
CAS_K	PCB_cong_79	PCB079
CAS_K	PCB_cong_8	PCB008
CAS_K	PCB_cong_80	PCB080
CAS_K	PCB_cong_81	PCB081
CAS_K	PCB_cong_82	PCB082
CAS_K	PCB_cong_83+99	PCB083+099
CAS_K	PCB_cong_84	PCB084
CAS_K	PCB_cong_85+116	PCB085+116
CAS_K	PCB_cong_88+91	PCB088+091
CAS_K	PCB_cong_89	PCB089
CAS_K	PCB_cong_9	PCB009
CAS_K	PCB_cong_92	PCB092
CAS_K	PCB_cong_93+100	PCB093+100
CAS_K	PCB_cong_94	PCB094
CAS_K	PCB_cong_95	PCB095
CAS_K	PCB_cong_96	PCB096
CAS_K	PCB_cong_98+102	PCB098+102
CAS_K	PCBs 108+124	PCB108+124
SGS NC	1,2,3,4,6,7,8-HpCDD	1234678HepDioxin
SGS NC	1,2,3,4,6,7,8-HpCDF	1234678HepFuran
SGS NC	1,2,3,4,7,8,9-HpCDF	1234789HepFuran
SGS NC	1,2,3,4,7,8-HxCDD	123478HexDioxin
SGS NC	1,2,3,4,7,8-HxCDF	123478HexFuran
SGS NC	1,2,3,6,7,8-HxCDD	123678HexDioxin
SGS NC	1,2,3,6,7,8-HxCDF	123678HexFuran
SGS NC	1,2,3,7,8,9-HxCDD	123789HexDioxin
SGS NC	1,2,3,7,8,9-HxCDF	123789HexFuran
SGS NC	1,2,3,7,8-PeCDD	12378PenDioxin
SGS NC	1,2,3,7,8-PeCDF	12378PenFuran
SGS NC	100-PeBDE	PBDE_cong_100

SGS NC	103-PeCB	PCB_cong_103
SGS NC	104L-PeCB	13C_PCB_cong_104
SGS NC	104-PeCB	PCB_cong_104
SGS NC	105L-PeCB	13C_PCB_cong_105
SGS NC	105-PeCB	PCB_cong_105
SGS NC	106-PeCB	PCB_cong_106
SGS NC	107-PeCB	PCB_cong_107
CAS_K	108601	22OxyBis1ClProp
SGS NC	109-PeCB	PCB_cong_109
SGS NC	10-DiCB	PCB_cong_10
SGS NC	110-PeCB	PCB_cong_110
CAS_K	111444	bs2ClEtOxEther
SGS NC	111L-PeCB	13C_PCB_cong_111
SGS NC	111-PeCB	PCB_cong_111
CAS_K	1122TetrClEth	1122TetraClEth
SGS NC	112-PeCB	PCB_cong_112
SGS NC	114L-PeCB	13C_PCB_cong_114
SGS NC	114-PeCB	PCB_cong_114
SGS NC	118L-PeCB	13C_PCB_cong_118
SGS NC	118-PeCB	PCB_cong_118
CAS_K	11Biphenyl	11Biphenyl
SGS NC	11-DiCB	PCB_cong_11
SGS NC	120-PeCB	PCB_cong_120
SGS NC	121-PeCB	PCB_cong_121
SGS NC	122-PeCB	PCB_cong_122
SGS NC	123L-PeCB	13C_PCB_cong_123
SGS NC	123-PeCB	PCB_cong_123
CAS_K	124TriClBenzene	124TriClBenzene
SGS NC	126L-PeCB	13C_PCB_cong_126
SGS NC	126-PeCB	PCB_cong_126
SGS NC	127-PeCB	PCB_cong_127
SGS NC	128-HxBDE	PBDE_cong_128
SGS NC	128-HxCB	PCB_cong_128
SGS NC	129-HxCB	PCB_cong_129
SGS NC	12-DiCB	PCB_cong_12
CAS_K	12DiClBenzene	12DiClBenzene
SGS NC	130-HxCB	PCB_cong_130
SGS NC	131-HxCB	PCB_cong_131

SGS NC	132-HxCB	PCB_cong_132
SGS NC	133-HxCB	PCB_cong_133
SGS NC	134-HxCB	PCB_cong_134
SGS NC	135-HxCB	PCB_cong_135
SGS NC	136-HxCB	PCB_cong_136
SGS NC	137-HxCB	PCB_cong_137
SGS NC	138,166-HxBDE	PBDE_coel138+166
SGS NC	139-HxCB	PCB_cong_139
CASH	13C_PCB_cong_105	PCB105L
CASH	13C_PCB_cong_111	PCB111L
CASH	13C_PCB_cong_114	PCB114L
CASH	13C_PCB_cong_118	PCB118L
CASH	13C_PCB_cong_123	PCB123L
CASH	13C_PCB_cong_126	PCB126L
CASH	13C_PCB_cong_167	PCB167L
CASH	13C_PCB_cong_169	PCB169L
CASH	13C_PCB_cong_178	PCB178L
CASH	13C_PCB_cong_189	PCB189L
CASH	13C_PCB_cong_77	PCB077L
CASH	13C_PCB_cong_81	PCB081L
SGS NC	13C-100-PeBDE	13C_PBDE_100
SGS NC	13C12-1,2,3,4,6,7,8-HpCDD	13C1234678HpCDD
SGS NC	13C12-1,2,3,4,6,7,8-HpCDF	13C1234678HpCDF
SGS NC	13C12-1,2,3,4,7,8,9-HpCDF	13C1234789HpCDF
SGS NC	13C12-1,2,3,4,7,8-HxCDD	13C123478HxCDD
SGS NC	13C12-1,2,3,4,7,8-HxCDF	13C123478HxCDF
SGS NC	13C12-1,2,3,6,7,8-HxCDD	13C123678HxCDD
SGS NC	13C12-1,2,3,6,7,8-HxCDF	13C123678HxCDF
SGS NC	13C12-1,2,3,7,8,9-HxCDF	13C123789HxCDF
SGS NC	13C12-1,2,3,7,8-PeCDD	13C12378PeCDD
SGS NC	13C12-1,2,3,7,8-PeCDF	13C12378PeCDF
SGS NC	13C12-2,3,4,6,7,8-HxCDF	13C234678HxCDF
SGS NC	13C12-2,3,4,7,8-PeCDF	13C23478PeCDF
SGS NC	13C12-2,3,7,8-TCDD	13C2378TCDD
SGS NC	13C12-2,3,7,8-TCDF	13C2378TCDF
SGS NC	13C12-OCDD	13C_OCDD
SGS NC	13C-139-HxBDE	13C_PBDE_139
SGS NC	13C-153-HxBDE	13C_PBDE_153

SGS NC	13C-154-HxBDE	13C_PBDE_154
SGS NC	13C-156,157-HxCB	13C_PCB_156_15
SGS NC	13C-183-HpBDE	13C_PBDE_183
SGS NC	13C-209-DeBDE	13C_PBDE_209
SGS NC	13C-28-TrBDE	13C_PBDE_28
SGS NC	13C-47-TeBDE	13C_PBDE_47
SGS NC	13C-99-PeBDE	13C_PBDE_99
CAS_K	13DiClBenzene	13DiClBenzene
SGS NC	141-HxCB	PCB_cong_141
SGS NC	142-HxCB	PCB_cong_142
SGS NC	143-HxCB	PCB_cong_143
SGS NC	144-HxCB	PCB_cong_144
SGS NC	145-HxCB	PCB_cong_145
SGS NC	146-HxCB	PCB_cong_146
SGS NC	147-HxCB	PCB_cong_147
SGS NC	148-HxCB	PCB_cong_148
SGS NC	14-DiCB	PCB_cong_14
CAS_K	14DiClBenzene	14DiClBenzene
SGS NC	150-HxCB	PCB_cong_150
SGS NC	152-HxCB	PCB_cong_152
SGS NC	153-HxBDE	PBDE_cong_153
SGS NC	153-HxCB	PCB_cong_153
SGS NC	154-HxBDE	PBDE_cong_154
SGS NC	154-HxCB	PCB_cong_154
SGS NC	155-HxCB	PCB_cong_155
SGS NC	155L-HxCB	13C_PCB_cong_155
SGS NC	156,157-HxCB	PCB_cong_156+157
SGS NC	156-HxCB	PCB_cong_156
SGS NC	156L-HxCB	13C_PCB_cong_156
SGS NC	158-HxCB	PCB_cong_158
SGS NC	159-HxCB	PCB_cong_159
SGS NC	15-DiCB	PCB_cong_15
SGS NC	15L-DiCB	13C_PCB_cong_15
SGS NC	160-HxCB	PCB_cong_160
SGS NC	161-HxCB	PCB_cong_161
SGS NC	162-HxCB	PCB_cong_162
SGS NC	164-HxCB	PCB_cong_164
SGS NC	165-HxCB	PCB_cong_165

SGS NC 167-HxCB	PCB_cong_167
SGS NC 167L-HxCB	13C_PCB_cong_167
SGS NC 169-HxCB	PCB_cong_169
SGS NC 169L-HxCB	13C_PCB_cong_169
SGS NC 16-TrCB	PCB_cong_16
SGS NC 17,25-TrBDE	PBDE_coel17+25
SGS NC 170-HpCB	PCB_cong_170
SGS NC 171-HpCB	PCB_cong_171
SGS NC 172-HpCB	PCB_cong_172
SGS NC 174-HpCB	PCB_cong_174
SGS NC 175-HpCB	PCB_cong_175
SGS NC 176-HpCB	PCB_cong_176
SGS NC 177-HpCB	PCB_cong_177
SGS NC 178-HpCB	PCB_cong_178
SGS NC 178L-HpCB	13C_PCB_cong_178
SGS NC 179-HpCB	PCB_cong_179
SGS NC 17-TrCB	PCB_cong_17
SGS NC 180-HpCB	PCB_cong_180
SGS NC 181-HpCB	PCB_cong_181
SGS NC 182-HpCB	PCB_cong_182
SGS NC 183-HpBDE	PBDE_cong_183
SGS NC 183-HpCB	PCB_cong_183
SGS NC 184-HpBDE	PBDE_cong_184
SGS NC 184-HpCB	PCB_cong_184
SGS NC 186-HpCB	PCB_cong_186
SGS NC 187-HpCB	PCB_cong_187
SGS NC 188-HpCB	PCB_cong_188
SGS NC 188L-HpCB	13C_PCB_cong_188
SGS NC 189-HpCB	PCB_cong_189
SGS NC 189L-HpCB	13C_PCB_cong_189
SGS NC 18-TrCB	PCB_cong_18
SGS NC 190-HpBDE	PBDE_cong_190
SGS NC 190-HpCB	PCB_cong_190
SGS NC 191-HpBDE	PBDE_cong_191
SGS NC 191-HpCB	PCB_cong_191
SGS NC 192-HpCB	PCB_cong_192
SGS NC 194-OcCB	PCB_cong_194
SGS NC 195-OcCB	PCB_cong_195

SGS NC	196-OcCB	PCB_cong_196
SGS NC	197-OcCB	PCB_cong_197
SGS NC	198-OcCB	PCB_cong_198
SGS NC	19L-TrCB	13C_PCB_cong_19
SGS NC	19-TrCB	PCB_cong_19
SGS NC	1L-MoCB	13C_PCB_cong_1
SGS NC	1-MoCB	PCB_cong_1
SGS NC	2,3,4,6,7,8-HxCDF	234678HexFuran
SGS NC	2,3,4,7,8-PeCDF	23478PenFuran
SGS NC	2,3,7,8-TCDD	2378TetDioxin
SGS NC	2,3,7,8-TCDF	2378TetFuran
CAS_K	2,4,6-Tribromoph	246TriBrPhenol
CAS_K	2,4,6-Tribromophenol	246TriBrPhenol
SGS NC	201-OcCB	PCB_cong_201
SGS NC	202L-OcCB	13C_PCB_cong_202
SGS NC	202-OcCB	PCB_cong_202
SGS NC	203-OcBDE	PBDE_cong_203
SGS NC	203-OcCB	PCB_cong_203
SGS NC	204-OcCB	PCB_cong_204
SGS NC	205L-OcCB	13C_PCB_cong_205
SGS NC	205-OcCB	PCB_cong_205
SGS NC	206L-NoCB	13C_PCB_cong_206
SGS NC	206-NoBDE	PBDE_cong_206
SGS NC	206-NoCB	PCB_cong_206
SGS NC	207-NoCB	PCB_cong_207
SGS NC	208L-NoCB	13C_PCB_cong_208
SGS NC	208-NoCB	PCB_cong_208
SGS NC	209-DeBDE	PBDE_cong_209
SGS NC	209-DeCB	DecClBiphenyl
SGS NC	209L-DeCB	13CDecClBiphenyl
SGS NC	20-TrCB	PCB_cong_20
SGS NC	21-TrCB	PCB_cong_21
CAS_K	22OxyBis2ClProp	22OxyBis2ClProp
SGS NC	22-TrCB	PCB_cong_22
SGS NC	23-TrCB	PCB_cong_23
CAS_K	245TriClPhenol	245TriClPhenol
CAS_K	246TriClPhenol	246TriClPhenol
CAS_K	24DDD	24DDD

CAS_K	24DDE	24DDE
CAS_K	24DDT	24DDT
CAS_K	24DiClPhenol	24DiClPhenol
CAS_K	24DiMePhenol	24DiMePhenol
CAS_K	24DiNiPhenol	24DiNiPhenol
CAS_K	24DiNiToluene	24DiNiToluene
SGS NC	24-TrCB	PCB_cong_24
SGS NC	25-TrCB	PCB_cong_25
CAS_K	26DiNiToluene	26DiNiToluene
SGS NC	26-TrCB	PCB_cong_26
SGS NC	27-TrCB	PCB_cong_27
SGS NC	28,33-TrBDE	PBDE_coel28+33
SGS NC	28L-TrCB	13C_PCB_cong_28
CAS_K	2-Chloroethyl Vi	2ClEtOxEthe
CAS_K	2-Chloroethyl Vinyl Ether	2ClEtOxEthe
CAS_K	2ClNaphthalene	2ClNaphthalene
CAS_K	2ClPhenol	2ClPhenol
CAS_K	2-Fluorobiphenyl	2FlBiphenyl
CAS_K	2-Fluorophenol	2FlPhenol
CAS_K	2MeNaphthalene	2MeNaphthalene
CAS_K	2MePhenol	2MePhenol
SGS NC	2-MoCB	PCB_cong_2
CAS_K	2NiAniline	2NiAniline
CAS_K	2NiPhenol	2NiPhenol
SGS NC	31-TrCB	PCB_cong_31
SGS NC	32-TrCB	PCB_cong_32
CAS_K	33DiClBenzidine	33DiClBenzidine
SGS NC	34-TrCB	PCB_cong_34
SGS NC	35-TrCB	PCB_cong_35
SGS NC	36-TrCB	PCB_cong_36
SGS NC	37Cl4-2,3,7,8-TCDD	37Cl4-2378TCDD
SGS NC	37L-TrCB	13C_PCB_cong_37
SGS NC	37-TrCB	PCB_cong_37
SGS NC	38-TrCB	PCB_cong_38
SGS NC	39-TrCB	PCB_cong_39
SGS NC	3L-MoCB	13C_PCB_cong_3
SGS NC	3-MoCB	PCB_cong_3
CAS_K	3NiAniline	3NiAniline

SGS NC	40-TeCB	PCB_cong_40
SGS NC	41-TeCB	PCB_cong_41
SGS NC	42-TeCB	PCB_cong_42
SGS NC	43-TeCB	PCB_cong_43
CAS_K	44DDD	44DDD
CAS_K	44DDE	44DDE
CAS_K	44DDT	44DDT
SGS NC	44-TeCB	PCB_cong_44
SGS NC	45-TeCB	PCB_cong_45
CAS_K	46DiNi2MePhenol	46DiNi2MePhenol
SGS NC	46-TeCB	PCB_cong_46
SGS NC	47-TeBDE	PBDE_cong_47
SGS NC	48-TeCB	PCB_cong_48
SGS NC	49-TeBDE	PBDE_cong_49
SGS NC	49-TeCB	PCB_cong_49
CAS_K	4BrPhPhEther	4BrPhPhEther
CAS_K	4Cl3MePhenol	4Cl3MePhenol
CAS_K	4ClAniline	4ClAniline
CAS_K	4ClPhPhEther	4ClPhPhEther
SGS NC	4-DiCB	PCB_cong_4
SGS NC	4L-DiCB	13C_PCB_cong_4
CAS_K	4MePhenol	4MePhenol
CAS_K	4NiAniline	4NiAniline
CAS_K	4NiPhenol	4NiPhenol
SGS NC	50-TeCB	PCB_cong_50
SGS NC	52-TeCB	PCB_cong_52
SGS NC	54L-TeCB	13C_PCB_cong_54
SGS NC	54-TeCB	PCB_cong_54
SGS NC	55-TeCB	PCB_cong_55
SGS NC	56-TeCB	PCB_cong_56
SGS NC	57-TeCB	PCB_cong_57
SGS NC	58-TeCB	PCB_cong_58
SGS NC	59-TeCB	PCB_cong_59
SGS NC	5-DiCB	PCB_cong_5
SGS NC	60-TeCB	PCB_cong_60
SGS NC	61-TeCB	PCB_cong_61
SGS NC	63-TeCB	PCB_cong_63
SGS NC	64-TeCB	PCB_cong_64

SGS NC	66-TeBDE	PBDE_cong_66
SGS NC	66-TeCB	PCB_cong_66
SGS NC	67-TeCB	PCB_cong_67
SGS NC	68-TeCB	PCB_cong_68
SGS NC	6-DiCB	PCB_cong_6
SGS NC	71-TeBDE	PBDE_cong_71
SGS NC	72-TeCB	PCB_cong_72
SGS NC	73-TeCB	PCB_cong_73
SGS NC	77L-TeCB	13C_PCB_cong_77
SGS NC	77-TeCB	PCB_cong_77
SGS NC	78-TeCB	PCB_cong_78
SGS NC	79-TeCB	PCB_cong_79
SGS NC	7-DiCB	PCB_cong_7
SGS NC	80-TeCB	PCB_cong_80
SGS NC	81L-TeCB	13C_PCB_cong_81
SGS NC	81-TeCB	PCB_cong_81
SGS NC	82-PeCB	PCB_cong_82
SGS NC	83-PeCB	PCB_cong_83
SGS NC	84-PeCB	PCB_cong_84
SGS NC	85-PeBDE	PBDE_cong_85
SGS NC	85-PeCB	PCB_cong_85
SGS NC	86-PeCB	PCB_cong_86
SGS NC	88-PeCB	PCB_cong_88
SGS NC	89-PeCB	PCB_cong_89
SGS NC	8-DiCB	PCB_cong_8
SGS NC	90-PeCB	PCB_cong_90
SGS NC	92-PeCB	PCB_cong_92
SGS NC	93-PeCB	PCB_cong_93
SGS NC	94-PeCB	PCB_cong_94
SGS NC	95-PeCB	PCB_cong_95
SGS NC	96-PeCB	PCB_cong_96
SGS NC	98-PeCB	PCB_cong_98
SGS NC	99-PeBDE	PBDE_cong_99
SGS NC	99-PeCB	PCB_cong_99
SGS NC	9-DiCB	PCB_cong_9
CAS_K	Acenaphthene	Acenaphthene
CAS_K	Acenaphthylene	Acenaphthylene
CAS_K	Acetophenone	Acetophenone

CAS_K	aHCH	alphaBHC
CAS_K	Aldrin	Aldrin
CAS_K	Alkalinity	Alkalinity
CAS_K	alphaChlordane	alphaChlordane
CAS_K	Aluminum	Aluminum
CAS_K	Ammonia_N	Ammonia_N
CAS_K	Anthracene	Anthracene
CAS_K	Antimony	Antimony
CAS_K	Aroclor_1262	Aroclor 1262
CAS_K	Aroclor_1262	Aroclor 1262
CAS_K	Aroclor_1268	Aroclor 1268
CAS_K	Aroclor_1268	Aroclor 1268
CAS_K	Arsenic	Arsenic
CAS_K	Barium	Barium
CAS_K	Benzaldehyde	Benzaldehyde
CAS_K	Benzoic acid	Benzoic acid
CAS_K	Benzyl alcohol	Benzyl alcohol
CAS_K	Beryllium	Beryllium
CAS_K	betaBHC	betaBHC
CAS_K	Bismuth	Bismuth
CAS_K	Boron	Boron
CAS_K	bs2ClEtOxEther	bs2ClEtOxEther
CAS_K	bs2ClEtOxMethane	bs2ClEtOxMethane
CAS_K	bs2EtHxPhthalate	bs2EtHxPhthalate
CAS_K	BzAAnthracene	BzAAnthracene
CAS_K	BzAPyrene	BzAPyrene
CAS_K	BzBFluoranthene	BzBFluoranthene
CAS_K	BzEPyrene	BzEPyrene
CAS_K	BzGhiPerylene	BzGhiPerylene
CAS_K	BzKFluoranthene	BzKFluoranthene
CAS_K	BzNButPhthalate	BzNButPhthalate
CAS_K	Cadmium	Cadmium
CAS_K	Calcium	Calcium
CAS_K	Caprolactam	Caprolactam
CAS_K	Carbazole	Carbazole
CAS_K	Carbon_org	Carbon_org
CAS_K	Cerium	Cerium
CAS_K	Cesium	Cesium

CAS_K	Chloride	Chloride
CAS_K	Chromium	Chromium
CAS_K	Chrysene	Chrysene
CAS_K	cisNonachlor	cisNonachlor
CAS_K	Cobalt	Cobalt
CAS_K	Copper	Copper
CAS_K	DecClBiphenyl	PCB209
Isotech	delta_18O	delta_18O
Isotech	delta_DH	delta_DH
CAS_K	deltaBHC	deltaBHC
CAS_K	Dibenzofuran	Dibenzofuran
CAS_K	DiBzAhAnthracene	DiBzAhAnthracene
CAS_K	DiBzThiophene	DiBzThiophene
CAS_K	Dieldrin	Dieldrin
CAS_K	DiEtPhthalate	DiEtPhthalate
CAS_K	DiMePhthalate	DiMePhthalate
CAS_K	DiNButPhthalate	DiNButPhthalate
CAS_K	DiNOctPhthalate	DiNOctPhthalate
CAS_K	DOC	DOC
CAS_K	Dysprosium	Dysprosium
CAS_K	Endosulfan_I	Endosulfan_I
CAS_K	Endosulfan_II	Endosulfan_II
CAS_K	EndosulfanSulf	EndosulfanSulf
CAS_K	Endrin	Endrin
CAS_K	Endrin aldehyde	Endrin aldehyde
CAS_K	Endrin ketone	Endrin ketone
CAS_K	Erbium	Erbium
CAS_K	Europium	Europium
CAS_K	Fluoranthene	Fluoranthene
CAS_K	Fluoranthene-d10	Fluoranth-d10
CAS_K	Fluorene	Fluorene
CAS_K	Fluoride	Fluoride
CAS_K	Gadolinium	Gadolinium
CAS_K	Gallium	Gallium
CAS_K	gammaBHC	gammaBHC
CAS_K	gammaChlordane	gammaChlordane
CAS_K	Germanium	Germanium
CAS_K	Gold	Gold

CAS_K	Hardness_CaCO3	Hardness_CaCO3
CAS_K	Heptachlor	Heptachlor
CAS_K	HeptachorEpox	HeptachorEpox
CAS_K	Hexachloroethane	Hexachloroethane
CAS_K	Holmium	Holmium
CAS_K	HxClBenzene	HxClBenzene
CAS_K	HxClButadiene	HxClButadiene
CAS_K	Ind123CdPyrene	Ind123CdPyrene
CAS_K	Indium	Indium
FGS	Inorganic As	As_inorg
CAS_K	Iron	Iron
CAS_K	Isophorone	Isophorone
CAS_K	Lanthanum	Lanthanum
CAS_K	Lead	Lead
CAS_K	Lithium	Lithium
CAS_K	Lutetium	Lutetium
CAS_K	Magnesium	Magnesium
CAS_K	Manganese	Manganese
CAS_K	Mercury	Mercury
CAS_K	Methoxychlor	Methoxychlor
CAS_K	Molybdenum	Molybdenum
CAS_K	Naphthalene	Naphthalene
CAS_K	Neodymium	Neodymium
CAS_K	Nickel	Nickel
CAS_K	Niobium	Niobium
CAS_K	Nitrite-Nitrate	Nitrite-Nitrate
CAS_K	Nitrobenzene	Nitrobenzene
CAS_K	NNitDiNPropAmine	NNitDiNPropAmine
CAS_K	NNitDiPhenAmine	NNitDiPhenAmine
SGS NC	OCDD	OctClDiBzDioxin
SGS NC	OCDF	OctClDiBzFuran
CAS_K	Oxychlorane	Oxychlorane
CASH	PCB_cong_105	PCB105
CASH	PCB_cong_114	PCB114
CASH	PCB_cong_118	PCB118
CASH	PCB_cong_123	PCB123
CASH	PCB_cong_126	PCB126
CASH	PCB_cong_156+157	PCB156+157

CASH	PCB_cong_156L+15	PCB156L+157L
CASH	PCB_cong_167	PCB167
CASH	PCB_cong_169	PCB169
CASH	PCB_cong_189	PCB189
CASH	PCB_cong_77	PCB077
CASH	PCB_cong_81	PCB081
CAS_K	PenClPhenol	PenClPhenol
CAS_K	Perylene	Perylene
CAS_K	pH	pH
CAS_K	Phenanthrene	Phenanthrene
CAS_K	Phenol	Phenol
CAS_K	Phenol-d6	PhenolD6
CAS_K	Phosphorus	Phosphorus
CAS_K	Potassium	Potassium
CAS_K	Praseodymium	Praseodymium
CAS_K	PrClCycPenDiene	HxCYCycPenDiene
CAS_K	p-Terphenyl-d14	pTerphenylD14
CAS_K	Pyrene	Pyrene
PACE	Radium-226	Ra_226
CAS_K	Rubidium	Rubidium
CAS_K	Samarium	Samarium
CAS_K	Scandium	Scandium
CAS_K	Selenium	Selenium
CAS_K	Silica	Silica
CAS_K	Silicon	Silicon
CAS_K	Silver	Silver
CAS_K	Sodium	Sodium
CAS_K	Strontium	Strontium
CAS_K	Sulfate	Sulfate
CAS_K	Tantalum	Tantalum
CAS_K	TDS	TDS
CAS_K	Tellurium	Tellurium
CAS_K	Terbium	Terbium
CAS_K	Tetrachloro-m-xy	TetraCl-m-xylene
CAS_K	Tetrachloro-m-xylene	TetraCl-m-xylene
CAS_K	TetraCl-m-xylene	TetraCl-m-xylene
CAS_K	TetrClEth	TetraClEth
CAS_K	Thallium	Thallium

CAS_K	Thorium	Thorium
CAS_K	Thulium	Thulium
CAS_K	Tin	Tin
CAS_K	Titanium	Titanium
CAS_K	TOC	TOC
SGS NC	Total HpCDDs	HpClDiBzDioxin
SGS NC	Total HpCDFs	HpClDiBzFuran
SGS NC	Total HxCDDs	HxCldiBzDioxin
SGS NC	Total HxCDFs	HxCldiBzFuran
SGS NC	Total PeCDDs	PenClDiBzDioxin
SGS NC	Total PeCDFs	PenClDiBzFuran
SGS NC	Total TCDDs	TetClDiBzDioxin
SGS NC	Total TCDFs	TetClDiBzFuran
CAS_K	TotChlordane	TotChlordane
CAS_K	Toxaphene	Toxaphene
CAS_K	transNonachlor	transNonachlor
CAS_K	TSS	TSS
CAS_K	Tungsten	Tungsten
CAS_K	Uranium	Uranium
PACE	Uranium-238	U-238
CAS_K	Vanadium	Vanadium
SGS NC	WHO-2005 TEQ (ND=0)	PCB_TEQ_WHO05_0
SGS NC	WHO-2005 TEQ (ND=½)	PCB_TEQ_WHO05_H
CAS_K	Ytterbium	Ytterbium
CAS_K	Yttrium	Yttrium
CAS_K	Zinc	Zinc
CAS_K	13C_PCB_cong_1	PCB001L
CAS_K	13C_PCB_cong_104	PCB104L
CAS_K	13C_PCB_cong_105	PCB105L
CAS_K	13C_PCB_cong_111	PCB111L
CAS_K	13C_PCB_cong_114	PCB114L
CAS_K	13C_PCB_cong_118	PCB118L
CAS_K	13C_PCB_cong_123	PCB123L
CAS_K	13C_PCB_cong_126	PCB126L
CAS_K	13C_PCB_cong_15	PCB015L
CAS_K	13C_PCB_cong_155	PCB155L
CAS_K	13C_PCB_cong_167	PCB167L
CAS_K	13C_PCB_cong_169	PCB169L

CAS_K	13C_PCB_cong_178	PCB178L
CAS_K	13C_PCB_cong_188	PCB188L
CAS_K	13C_PCB_cong_189	PCB189L
CAS_K	13C_PCB_cong_19	PCB019L
CAS_K	13C_PCB_cong_202	PCB202L
CAS_K	13C_PCB_cong_205	PCB205L
CAS_K	13C_PCB_cong_206	PCB206L
CAS_K	13C_PCB_cong_208	PCB208L
CAS_K	13C_PCB_cong_28	PCB028L
CAS_K	13C_PCB_cong_3	PCB003L
CAS_K	13C_PCB_cong_37	PCB037L
CAS_K	13C_PCB_cong_4	PCB004L
CAS_K	13C_PCB_cong_54	PCB054L
CAS_K	13C_PCB_cong_77	PCB077L
CAS_K	13C_PCB_cong_81	PCB081L
CAS_K	13CDecClBiphenyl	PCB209L
CAS_K	PCB_129+138+163	PCB129+138+163
CAS_K	PCB_40+41+71	PCB040+041+071
CAS_K	PCB_44+47+65	PCB044+047+065
CAS_K	PCB_59+62+75	PCB059+062+075
CAS_K	PCB_61+70+74+76	PCB061+070+2m
CAS_K	PCB_86+87+97+3m	PCB086+087+4ma
CAS_K	PCB_90+101+113	PCB090+101+113
CAS_K	PCB_cong_10	PCB010
CAS_K	PCB_cong_103	PCB103
CAS_K	PCB_cong_104	PCB104
CAS_K	PCB_cong_105	PCB105
CAS_K	PCB_cong_106	PCB106
CAS_K	PCB_cong_107	PCB107
CAS_K	PCB_cong_11	PCB011
CAS_K	PCB_cong_110+115	PCB110+115
CAS_K	PCB_cong_111	PCB111
CAS_K	PCB_cong_112	PCB112
CAS_K	PCB_cong_114	PCB114
CAS_K	PCB_cong_117	PCB117
CAS_K	PCB_cong_118	PCB118
CAS_K	PCB_cong_12+13	PCB012+013
CAS_K	PCB_cong_120	PCB120

CAS_K	PCB_cong_121	PCB121
CAS_K	PCB_cong_122	PCB122
CAS_K	PCB_cong_123	PCB123
CAS_K	PCB_cong_126	PCB126
CAS_K	PCB_cong_127	PCB127
CAS_K	PCB_cong_128+166	PCB128+166
CAS_K	PCB_cong_130	PCB130
CAS_K	PCB_cong_131	PCB131
CAS_K	PCB_cong_132	PCB132
CAS_K	PCB_cong_133	PCB133
CAS_K	PCB_cong_134	PCB134
CAS_K	PCB_cong_135+151	PCB135+151
CAS_K	PCB_cong_136	PCB136
CAS_K	PCB_cong_137	PCB137
CAS_K	PCB_cong_139+140	PCB139+140
CAS_K	PCB_cong_141	PCB141
CAS_K	PCB_cong_142	PCB142
CAS_K	PCB_cong_143	PCB143
CAS_K	PCB_cong_144	PCB144
CAS_K	PCB_cong_145	PCB145
CAS_K	PCB_cong_146	PCB146
CAS_K	PCB_cong_147+149	PCB147+149
CAS_K	PCB_cong_148	PCB148
CAS_K	PCB_cong_150	PCB150
CAS_K	PCB_cong_152	PCB152
CAS_K	PCB_cong_153+168	PCB153+168
CAS_K	PCB_cong_154	PCB154
CAS_K	PCB_cong_155	PCB155
CAS_K	PCB_cong_156+157	PCB156+157
CAS_K	PCB_cong_156L+157L	PCB156L+157L
CAS_K	PCB_cong_158	PCB158
CAS_K	PCB_cong_159	PCB159
CAS_K	PCB_cong_16	PCB016
CAS_K	PCB_cong_160	PCB160
CAS_K	PCB_cong_161	PCB161
CAS_K	PCB_cong_162	PCB162
CAS_K	PCB_cong_164	PCB164
CAS_K	PCB_cong_165	PCB165

CAS_K	PCB_cong_167	PCB167
CAS_K	PCB_cong_169	PCB169
CAS_K	PCB_cong_17	PCB017
CAS_K	PCB_cong_170	PCB170
CAS_K	PCB_cong_171+173	PCB171+173
CAS_K	PCB_cong_172	PCB172
CAS_K	PCB_cong_174	PCB174
CAS_K	PCB_cong_175	PCB175
CAS_K	PCB_cong_176	PCB176
CAS_K	PCB_cong_177	PCB177
CAS_K	PCB_cong_178	PCB178
CAS_K	PCB_cong_179	PCB179
CAS_K	PCB_cong_18+30	PCB018+030
CAS_K	PCB_cong_180+193	PCB180+193
CAS_K	PCB_cong_181	PCB181
CAS_K	PCB_cong_182	PCB182
CAS_K	PCB_cong_183	PCB183
CAS_K	PCB_cong_184	PCB184
CAS_K	PCB_cong_185	PCB185
CAS_K	PCB_cong_186	PCB186
CAS_K	PCB_cong_187	PCB187
CAS_K	PCB_cong_188	PCB188
CAS_K	PCB_cong_189	PCB189
CAS_K	PCB_cong_19	PCB019
CAS_K	PCB_cong_190	PCB190
CAS_K	PCB_cong_191	PCB191
CAS_K	PCB_cong_192	PCB192
CAS_K	PCB_cong_194	PCB194
CAS_K	PCB_cong_195	PCB195
CAS_K	PCB_cong_196	PCB196
CAS_K	PCB_cong_197	PCB197
CAS_K	PCB_cong_198+199	PCB198+199
CAS_K	PCB_cong_20+28	PCB020+028
CAS_K	PCB_cong_200	PCB200
CAS_K	PCB_cong_201	PCB201
CAS_K	PCB_cong_202	PCB202
CAS_K	PCB_cong_203	PCB203
CAS_K	PCB_cong_204	PCB204

CAS_K	PCB_cong_205	PCB205
CAS_K	PCB_cong_206	PCB206
CAS_K	PCB_cong_207	PCB207
CAS_K	PCB_cong_208	PCB208
CAS_K	PCB_cong_21+33	PCB021+033
CAS_K	PCB_cong_22	PCB022
CAS_K	PCB_cong_23	PCB023
CAS_K	PCB_cong_24	PCB024
CAS_K	PCB_cong_25	PCB025
CAS_K	PCB_cong_26+29	PCB026+029
CAS_K	PCB_cong_27	PCB027
CAS_K	PCB_cong_31	PCB031
CAS_K	PCB_cong_32	PCB032
CAS_K	PCB_cong_34	PCB034
CAS_K	PCB_cong_35	PCB035
CAS_K	PCB_cong_36	PCB036
CAS_K	PCB_cong_37	PCB037
CAS_K	PCB_cong_38	PCB038
CAS_K	PCB_cong_39	PCB039
CAS_K	PCB_cong_4	PCB004
CAS_K	PCB_cong_42	PCB042
CAS_K	PCB_cong_43+73	PCB043+073
CAS_K	PCB_cong_45+51	PCB045+051
CAS_K	PCB_cong_46	PCB046
CAS_K	PCB_cong_48	PCB048
CAS_K	PCB_cong_49+69	PCB049+069
CAS_K	PCB_cong_5	PCB005
CAS_K	PCB_cong_50+53	PCB050+053
CAS_K	PCB_cong_52	PCB052
CAS_K	PCB_cong_54	PCB054
CAS_K	PCB_cong_55	PCB055
CAS_K	PCB_cong_56	PCB056
CAS_K	PCB_cong_57	PCB057
CAS_K	PCB_cong_58	PCB058
CAS_K	2Cl11pBiphenyl	PCB001
CAS_K	35DiClBiphenyl	PCB014
CAS_K	3ClBiphenyl	PCB002
CAS_K	44DiClBiphenyl	PCB015

CAS_K	4Cl11Biphenyl	PCB003
CAS_K	PCB_cong_6	PCB006
CAS_K	PCB_cong_60	PCB060
CAS_K	PCB_cong_63	PCB063
CAS_K	PCB_cong_64	PCB064
CAS_K	PCB_cong_156L+15	PCB156L+157L
CAS_K	PCB_43+73	PCB043+073
CAS_K	PCB_49+69	PCB049+069
CAS_K	PCB_70+61+74+76	PCB061+070+2m
CAS_K	PCB_85+116	PCB085+116
CAS_K	PCB_86+87+97+109	PCB086+087+4ma
CAS_K	PCB_93+100	PCB093+100
CAS_K	PCB_98+102	PCB098+102
CAS_K	PCB_cong_108-124	PCB108+124
CAS_K	PCB_cong_129+138	PCB129+138+163
CAS_K	Coelution of PCB	PCB045+051
CAS_K	PCB_108+124	PCB108+124
CAS_K	PCB_135+151	PCB135+151
CAS_K	PCB_cong_108+124	PCB108+124
CAS_K	Fluoranth-d10	
CAS_K	Specific Gravity	SpGravity
CAS_K	Water Content	Moisture

lab	lab_basis	idb_basis
CAS_K	Dry	DryWt
CAS_K	NA	Unfilt
CAS_K	Dissolved	Dissolved
CAS_K	Unfilt	Unfilt
CAS_K	WetWt	WetWt
CAS_K	Wet	WetWt
CAS_K	PerSamp	PerSamp
CAS_K	Total	Unfilt

lab	lab_instrument_type	idb_instrument_type
CAS_K	High Resolution Mass Spectrometer	HRMS
CAS_K	Walkley-Black	WalkleyBlk

lab	lab_qc_type	idb_qc_type
CAS_K	LCSDuplicate	LCSDUP
CAS_K	LCS	LCS
CAS_K	MethodBlank	MethodBlank
CAS_K	Blank	MethodBlank
CAS_K	LCSD	LCSDUP
CAS_K	MS	MatSpike
CAS_K	MSD	MatSpikeDup

lab	lab_material_analyzed	idb_material_analyzed
CAS_K	Filter	Wipes
CAS_K	Wipe	Wipes

lab	lab_unit_code	units
SGS NC	NG/L	ng/L
SGS NC	PG/G	pg/g
SGS NC	PG/L	pg/L
SGS NC	PG/UL	pg/uL
CAS_K	mg/L	mg/L
CAS_K	SU	SU
CAS_K	ug/L	ug/L
FGS	ug/l	ug/L
CAS_K	ng/L	ng/L
Isotech	promille	promille
PACE	pCi/L	pCi/L
CAS_K	ug/WIPE	ug

tbl_name	fld_name	fld_type	fld_size	fld_required	pg_type	PK_yn	FK_yn	PK	FK	tbl_foreign
d_area	area_id	dbText	40	No	character varying(40)	Yes	No	area_id;	FK	
d_area	description	dbMemo	0	No	character varying(255) or character varying	No	No			
d_area	area_type	dbText	10	No	character varying(10)	No	Yes		area_type	e_areatype
d_area	defining_doc	dbText	12	No	character varying(12)	No	Yes		doc_id	d_document
d_area	area_geom	dbMemo	0	No	character varying(255) or character varying	No	No			
d_area	area_category	dbText	50	No	character varying(50)	No	No			
d_area	shapefile	dbText	64	No	character varying(64)	No	No			
d_bioaccumbat	lab	dbText	10	No	character varying(10)	Yes	Yes	lab; bioaccum_batch;	lab	e_lab
d_bioaccumbat	bioaccum_batch	dbText	12	No	character varying(12)	Yes	No	lab; bioaccum_batch;		
d_bioaccumbat	taxon	dbText	16	No	character varying(16)	No	Yes		taxon_code	e_taxon
d_bioaccumbat	start_date	dbDate	8	No	timestamp without time zone	No	No			
d_bioaccumbat	end_date	dbDate	8	No	timestamp without time zone	No	No			
d_bioaccumbat	sop	dbText	12	No	character varying(12)	No	Yes		doc_id	d_document
d_bioaccumbat	qa_level	dbText	12	No	character varying(12)	No	No			
d_bioaccumbat	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_bioaccumbat	bioaccumbat_alias	dbLong	4	No	bigserial or integer	No	No			
d_bioaccumsamp	study_id	dbText	25	No	character varying(25)	Yes	Yes	study_id; bioaccum_sno;	study_id	d_bioaccumtest
d_bioaccumsamp	bioaccum_sno	dbText	20	No	character varying(20)	Yes	No	study_id; bioaccum_sno;		
d_bioaccumsamp	sample_id	dbText	20	No	character varying(20)	No	Yes		sample_id	d_bioaccumtest
d_bioaccumsamp	lab	dbText	10	No	character varying(10)	No	Yes		lab	d_bioaccumtest
d_bioaccumsamp	bioaccum_batch	dbText	12	No	character varying(12)	No	Yes		bioaccum_batch	d_bioaccumtest
d_bioaccumsamp	sample_material	dbText	20	No	character varying(20)	No	No			
d_bioaccumsamp	bioaccumsamp_alias	dbLong	4	No	bigserial or integer	No	No			
d_bioaccumtest	lab	dbText	10	No	character varying(10)	Yes	Yes	lab; bioaccum_batch; study_id; sample_id;	lab	d_bioaccumbat
d_bioaccumtest	bioaccum_batch	dbText	12	No	character varying(12)	Yes	Yes	lab; bioaccum_batch; study_id; sample_id;	bioaccum_batch	d_bioaccumbat
d_bioaccumtest	study_id	dbText	25	No	character varying(25)	Yes	Yes	lab; bioaccum_batch; study_id; sample_id;	study_id	d_sampmain
d_bioaccumtest	sample_id	dbText	20	No	character varying(20)	Yes	Yes	lab; bioaccum_batch; study_id; sample_id;	sample_id	d_sampmain
d_bioaccumtest	bioaccumtest_alias	dbLong	4	No	bigserial or integer	No	No			
d_bioasbat	lab	dbText	10	No	character varying(10)	Yes	Yes	lab; bioas_batch;	lab	e_lab
d_bioasbat	bioas_batch	dbText	12	No	character varying(12)	Yes	No	lab; bioas_batch;		
d_bioasbat	bioas_type	dbText	10	No	character varying(10)	No	Yes		bioas_type	e_bioasstype
d_bioasbat	taxon	dbText	16	No	character varying(16)	No	Yes		taxon_code	e_taxon
d_bioasbat	start_date	dbDate	8	No	timestamp without time zone	No	No			
d_bioasbat	end_date	dbDate	8	No	timestamp without time zone	No	No			
d_bioasbat	qa_level	dbText	10	No	character varying(10)	No	Yes		qa_level	e_qalevel
d_bioasbat	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_bioasbat	bioasbat_alias	dbLong	4	No	bigserial or integer	No	No			
d_bioasctl	lab	dbText	10	Yes	character varying(10)	Yes	Yes	lab; bioas_batch; bioas_var; control_sample; dilution; lab_rep; bioas_meas;	lab	d_bioasbat
d_bioasctl	bioas_batch	dbText	12	Yes	character varying(12)	Yes	Yes	lab; bioas_batch; bioas_var; control_sample; dilution; lab_rep; bioas_meas;	bioas_batch	d_bioasbat
d_bioasctl	bioas_var	dbText	10	Yes	character varying(10)	Yes	Yes	lab; bioas_batch; bioas_var; control_sample; dilution; lab_rep; bioas_meas;	bioas_var	e_bioasvar
d_bioasctl	control_sample	dbText	16	Yes	character varying(16)	Yes	No	lab; bioas_batch; bioas_var; control_sample; dilution; lab_rep; bioas_meas;		
d_bioasctl	dilution	dbDouble	8	Yes	double precision	Yes	No	lab; bioas_batch; bioas_var; control_sample; dilution; lab_rep; bioas_meas;		
d_bioasctl	lab_rep	dbText	6	Yes	character varying(6)	Yes	No	lab; bioas_batch; bioas_var; control_sample; dilution; lab_rep; bioas_meas;		
d_bioasctl	bioas_meas	dbText	10	Yes	character varying(10)	Yes	Yes	lab; bioas_batch; bioas_var; control_sample; dilution; lab_rep; bioas_meas;	bioas_meas	e_bioasmeas
d_bioasctl	bioas_value	dbDouble	8	Yes	double precision	No	No			
d_bioasctl	bioas_unit	dbText	10	Yes	character varying(10)	No	Yes		bioas_unit	e_bioasunit
d_bioasctl	bioas_qual	dbText	2	No	character varying(2)	No	Yes		bioas_qual	e_bioasqual
d_bioasctl	reportable	dbBoolean	1	Yes	boolean	No	No			
d_bioasctl	bioasctl_alias	dbLong	4	No	bigserial or integer	No	No			
d_bioasctl	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_bioasdat	study_id	dbText	25	No	character varying(25)	Yes	Yes	study_id; sample_id; lab; bioas_batch; bioas_var; dilution; lab_rep; bioas_meas;	study_id	d_sampmain
d_bioasdat	sample_id	dbText	20	No	character varying(20)	Yes	Yes	study_id; sample_id; lab; bioas_batch; bioas_var; dilution; lab_rep; bioas_meas;	sample_id	d_sampmain
d_bioasdat	lab	dbText	10	No	character varying(10)	Yes	Yes	study_id; sample_id; lab; bioas_batch; bioas_var; dilution; lab_rep; bioas_meas;	lab	e_lab
d_bioasdat	bioas_batch	dbText	12	No	character varying(12)	Yes	Yes	study_id; sample_id; lab; bioas_batch; bioas_var; dilution; lab_rep; bioas_meas;	bioas_batch	d_bioasbat
d_bioasdat	bioas_var	dbText	10	No	character varying(10)	Yes	Yes	study_id; sample_id; lab; bioas_batch; bioas_var; dilution; lab_rep; bioas_meas;	bioas_var	e_bioasvar
d_bioasdat	dilution	dbSingle	4	No	real	Yes	No	study_id; sample_id; lab; bioas_batch; bioas_var; dilution; lab_rep; bioas_meas;		
d_bioasdat	lab_rep	dbText	6	No	character varying(6)	Yes	No	study_id; sample_id; lab; bioas_batch; bioas_var; dilution; lab_rep; bioas_meas;		
d_bioasdat	bioas_meas	dbText	10	No	character varying(10)	Yes	Yes	study_id; sample_id; lab; bioas_batch; bioas_var; dilution; lab_rep; bioas_meas;	bioas_meas	e_bioasmeas
d_bioasdat	bioas_value	dbSingle	4	No	real	No	No			
d_bioasdat	bioas_unit	dbText	10	Yes	character varying(10)	No	Yes		bioas_unit	e_bioasunit
d_bioasdat	bioas_qual	dbText	2	No	character varying(2)	No	Yes		bioas_qual	e_bioasqual
d_bioasdat	reportable	dbBoolean	1	No	boolean	No	No			
d_bioasdat	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_bioasdat	bioasdat_alias	dbLong	4	No	bigserial or integer	No	No			
d_criteria	critcode	dbText	50	No	character varying(50)	Yes	Yes	critcode; analyte; meas_basis; range_limit;	critcode	d_criteriadefts
d_criteria	analyte	dbText	16	No	character varying(16)	Yes	Yes	critcode; analyte; meas_basis; range_limit;	analyte	e_analyte
d_criteria	crit_value	dbDouble	8	No	double precision	No	No			
d_criteria	unit	dbText	10	No	character varying(10)	No	Yes		unit	e_unit
d_criteria	meas_basis	dbText	10	No	character varying(10)	Yes	Yes		meas_basis	e_measbasis
d_criteria	material	dbText	20	No	character varying(20)	No	Yes		material	e_material
d_criteria	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_criteria	hardness_dependent	dbBoolean	1	No	boolean	No	No			

d_criteria	hd_m	dbDouble	8	No	double precision	No	No		
d_criteria	hd_b	dbDouble	8	No	double precision	No	No		
d_criteria	cf_b	dbDouble	8	No	double precision	No	No		
d_criteria	cf_m	dbDouble	8	No	double precision	No	No		
d_criteria	ph_dependent	dbBoolean	1	No	boolean	No	No		
d_criteria	ph_m	dbDouble	8	No	double precision	No	No		
d_criteria	ph_b	dbDouble	8	No	double precision	No	No		
d_criteria	range_limit	dbText	5	No	character varying(5)	Yes	No		
d_criteriadefs	critcode	dbText	50	No	character varying(50)	Yes	No	critcode;	
d_criteriadefs	critdescrip	dbMemo	0	No	character varying(255) or character varying	No	No		
d_criteriadefs	crityear	dbText	4	No	character varying(4)	No	No		
d_criteriadefs	doc_id	dbText	12	No	character varying(12)	No	No		
d_criteriadefs	comments	dbMemo	0	No	character varying(255) or character varying	No	No		
d_criteriadefs	resource	dbText	10	No	character varying(10)	No	No		
d_criteriadefs	material	dbText	20	No	character varying(20)	No	Yes	material	e_material
d_criteriadefs	guideline_type	dbText	10	No	character varying(10)	No	No		
d_dbhistory	change_date	dbDate	8	No	timestamp without time zone	No	No		
d_dbhistory	addition	dbBoolean	1	No	boolean	No	No		
d_dbhistory	edit	dbBoolean	1	No	boolean	No	No		
d_dbhistory	deletion	dbBoolean	1	No	boolean	No	No		
d_dbhistory	documents	dbBoolean	1	No	boolean	No	No		
d_dbhistory	sample_info	dbBoolean	1	No	boolean	No	No		
d_dbhistory	chem_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	chemqc_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	tox_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	toxqc_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	bioaccum_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	spabund_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	location_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	area_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	gis_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	party_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	facility_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	crit_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	comments	dbMemo	0	No	character varying(255) or character varying	No	No		
d_dbhistory	data_manager	dbText	32	No	character varying(32)	No	No		
d_dockwd	doc_id	dbText	12	No	character varying(12)	Yes	Yes	doc_id; keyword;	doc_id
d_dockwd	keyword	dbText	25	No	character varying(25)	Yes	Yes	doc_id; keyword;	d_document
d_doclink	parent_doc	dbText	12	No	character varying(12)	Yes	No	parent_doc; doc_rel; child_doc;	e_keyword
d_doclink	doc_rel	dbText	12	No	character varying(12)	Yes	No	parent_doc; doc_rel; child_doc;	
d_doclink	child_doc	dbText	12	No	character varying(12)	Yes	No	parent_doc; doc_rel; child_doc;	
d_document	doc_id	dbText	12	No	character varying(12)	Yes	No	doc_id;	
d_document	pub_year	dbInteger	2	No	smallint	No	No		
d_document	authors	dbText	150	No	character varying(150)	No	No		
d_document	title	dbText	250	No	character varying(250)	No	No		
d_document	publisher	dbText	150	No	character varying(150)	No	No		
d_document	pub_date	dbDate	8	No	timestamp without time zone	No	No		
d_document	pub_loc	dbText	100	No	character varying(100)	No	No		
d_document	doc_type	dbText	50	No	character varying(50)	No	Yes	doc_type	e_doctype
d_document	url	dbText	250	No	character varying(250)	No	No		
d_document	abstract	dbMemo	0	No	character varying(255) or character varying	No	No		
d_document	first_page	dbInteger	2	No	smallint	No	No		
d_document	last_page	dbInteger	2	No	smallint	No	No		
d_document	total_pages	dbInteger	2	No	smallint	No	No		
d_document	sent_from	dbText	150	No	character varying(150)	No	No		
d_document	sent_to	dbText	150	No	character varying(150)	No	No		
d_document	filename	dbText	64	No	character varying(64)	No	No		
d_document	file_loc	dbText	128	No	character varying(128)	No	No		
d_document	bates_prefix	dbText	8	No	character varying(8)	No	No		
d_document	bates_start	dbText	10	No	character varying(10)	No	No		
d_document	bates_end	dbText	10	No	character varying(10)	No	No		
d_document	int_lib_id	dbText	12	No	character varying(12)	No	No		
d_document	other_lib_id	dbText	12	No	character varying(12)	No	No		
d_document	doc_cat	dbText	24	No	character varying(24)	No	Yes	doc_cat	e_doccat
d_event	event_id	dbText	12	No	character varying(12)	Yes	No	event_id;	
d_event	event_type	dbText	10	No	character varying(10)	No	No		
d_event	description	dbMemo	0	No	character varying(255) or character varying	No	No		
d_event	event_date	dbDate	8	No	timestamp without time zone	No	No		
d_event	event_occurred	dbBoolean	1	No	boolean	No	No		
d_event	event_duration	dbDouble	8	No	double precision	No	No		
d_event	duration_units	dbText	10	No	character varying(10)	No	No		
d_event	primary_document	dbText	12	No	character varying(12)	No	No		
d_eventarea	event_id	dbText	12	No	character varying(12)	Yes	No	event_id; area_id;	

d_eventarea	area_id	dbText	40	No	character varying(40)	Yes	No	event_id; area_id;		
d_eventarea	doc_id	dbText	12	No	character varying(12)	No	No			
d_eventdoc	event_id	dbText	12	No	character varying(12)	Yes	No	event_id; doc_id;		
d_eventdoc	doc_id	dbText	12	No	character varying(12)	Yes	No	event_id; doc_id;		
d_eventlocation	event_id	dbText	12	No	character varying(12)	Yes	No	event_id; location_id;		
d_eventlocation	location_id	dbText	20	No	character varying(20)	Yes	No	event_id; location_id;		
d_eventlocation	doc_id	dbText	12	No	character varying(12)	No	No			
d_eventparty	event_id	dbText	12	No	character varying(12)	Yes	No	event_id; party_id;		
d_eventparty	party_id	dbText	16	No	character varying(16)	Yes	No	event_id; party_id;		
d_eventparty	party_role	dbText	10	No	character varying(10)	No	No			
d_eventparty	doc_id	dbText	12	No	character varying(12)	No	No			
d_fldqcsamp	study_id	dbText	25	Yes	character varying(25)	Yes	Yes	study_id; qc/sample_id;	study_id	d_study
d_fldqcsamp	qc/sample_id	dbText	20	Yes	character varying(20)	Yes	No	study_id; qc/sample_id;		
d_fldqcsamp	qc_type	dbText	12	Yes	character varying(12)	No	Yes		qc_type	e_qctype
d_fldqcsamp	fldqc_group	dbText	12	Yes	character varying(12)	No	No			
d_fldqcsamp	sample_date	dbDate	8	No	timestamp without time zone	No	No			
d_fldqcsamp	srn_id	dbText	50	No	character varying(50)	No	No			
d_fldqcsamp	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_fldqcsplit	study_id	dbText	25	Yes	character varying(25)	Yes	Yes	study_id; fldqc_sno;	study_id	d_fldqcsamp
d_fldqcsplit	fldqc_sno	dbText	20	Yes	character varying(20)	Yes	No	study_id; fldqc_sno;		
d_fldqcsplit	qc/sample_id	dbText	20	Yes	character varying(20)	No	Yes		qc/sample_id	d_fldqcsamp
d_fldqcsplit	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_histopath	study_id	dbText	25	Yes	character varying(25)	Yes	Yes	study_id; sample_id; organ; lesion_type;	study_id	d_sampmain
d_histopath	sample_id	dbText	20	Yes	character varying(20)	Yes	Yes	study_id; sample_id; organ; lesion_type;	sample_id	d_sampmain
d_histopath	organ	dbText	20	Yes	character varying(20)	Yes	Yes	study_id; sample_id; organ; lesion_type;	sample_material	e_sampmaterial
d_histopath	lesion_type	dbText	6	Yes	character varying(6)	Yes	Yes	study_id; sample_id; organ; lesion_type;	lesion_type	e_lesiontype
d_histopath	lesion_severity	dbText	15	Yes	character varying(15)	No	Yes		lesion_severity	e_lesionsev
d_histopath	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_labcalbatch	lab	dbText	10	No	character varying(10)	Yes	No	lab; lab_cal_batch;		
d_labcalbatch	lab_cal_batch	dbText	16	No	character varying(16)	Yes	No	lab; lab_cal_batch;		
d_labcalbatch	instrument_type	dbText	10	No	character varying(10)	No	No			
d_labcalbatch	instrument_id	dbText	16	No	character varying(16)	No	No			
d_labcalbatch	initial_cal_date	dbDate	8	No	timestamp without time zone	No	No			
d_labpkg	lab	dbText	10	No	character varying(10)	Yes	Yes	lab; lab_pkg; anal_type;	lab	e_lab
d_labpkg	lab_pkg	dbText	16	No	character varying(16)	Yes	No	lab; lab_pkg; anal_type;		
d_labpkg	anal_type	dbText	10	No	character varying(10)	Yes	No	lab; lab_pkg; anal_type;		
d_labpkg	anal_begun	dbDate	8	No	timestamp without time zone	No	No			
d_labpkg	anal_completed	dbDate	8	No	timestamp without time zone	No	No			
d_labpkg	analyst	dbText	32	No	character varying(32)	No	No			
d_labpkg	eddd_format	dbMemo	0	No	character varying(255) or character varying	No	No			
d_labpkg	eddd_filename	dbMemo	0	No	character varying(255) or character varying	No	No			
d_labpkg	qalevel_target	dbText	10	No	character varying(10)	No	Yes		qa_level	e_qalevel
d_labpkg	qalevel_applied	dbText	10	No	character varying(10)	No	Yes		qa_level	e_qalevel
d_labpkg	validated_by	dbText	32	No	character varying(32)	No	No			
d_labpkg	validation_done	dbDate	8	No	timestamp without time zone	No	No			
d_labpkg	pkg_alias	dbLong	4	No	bigserial or integer	No	No			
d_labpkg	defining_doc	dbText	12	No	character varying(12)	No	No			
d_labpkg	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_labqcbatch	lab	dbText	10	No	character varying(10)	Yes	No	lab; lab_qc_batch;		
d_labqcbatch	lab_qc_batch	dbText	16	No	character varying(16)	Yes	No	lab; lab_qc_batch;		
d_labqcbatch	prep_date	dbDate	8	No	timestamp without time zone	No	No			
d_labqcbatch	extraction_date	dbDate	8	No	timestamp without time zone	No	No			
d_labqcsamp	lab	dbText	10	Yes	character varying(10)	Yes	Yes	lab; labqc_samp;	lab	e_lab
d_labqcsamp	labqc_samp	dbText	20	Yes	character varying(20)	Yes	No	lab; labqc_samp;		
d_labqcsamp	qc_type	dbText	12	Yes	character varying(12)	No	Yes		qc_type	e_qctype
d_labqcsamp	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_labresult	lab	dbText	10	No	character varying(10)	Yes	Yes	lab; lab_pkg; anal_type; labsample; material_analyzed; method_code; analyte; meas_basis; lab_rep;	lab	d_labpkg
d_labresult	lab_pkg	dbText	16	No	character varying(16)	Yes	Yes	lab; lab_pkg; anal_type; labsample; material_analyzed; method_code; analyte; meas_basis; lab_rep;	lab_pkg	d_labpkg
d_labresult	anal_type	dbText	10	No	character varying(10)	Yes	Yes	lab; lab_pkg; anal_type; labsample; material_analyzed; method_code; analyte; meas_basis; lab_rep;	anal_type	d_labpkg
d_labresult	labsample	dbText	20	No	character varying(20)	Yes	Yes	lab; lab_pkg; anal_type; labsample; material_analyzed; method_code; analyte; meas_basis; lab_rep;	labsample	d_labsample
d_labresult	material_analyzed	dbText	20	No	character varying(20)	Yes	Yes	lab; lab_pkg; anal_type; labsample; material_analyzed; method_code; analyte; meas_basis; lab_rep;	sample_material	e_sampmaterial
d_labresult	method_code	dbText	15	No	character varying(15)	Yes	Yes	lab; lab_pkg; anal_type; labsample; material_analyzed; method_code; analyte; meas_basis; lab_rep;	method_code	e_analmethod
d_labresult	analyte	dbText	16	No	character varying(16)	Yes	Yes	lab; lab_pkg; anal_type; labsample; material_analyzed; method_code; analyte; meas_basis; lab_rep;	analyte	e_analyte
d_labresult	meas_basis	dbText	10	No	character varying(10)	Yes	Yes	lab; lab_pkg; anal_type; labsample; material_analyzed; method_code; analyte; meas_basis; lab_rep;	meas_basis	e_measbasis

Field	Table	Field Type	Length	Nullable	Default	Index	PK	FK	Comments	Unit	Alias
d_labresult	lab_rep	dbText	6	No			Yes	No	lab; lab_pkg; anal_type; labsample; material_analyzed; method_code; analyte; meas_basis; lab_rep;		
d_labresult	meas_value	dbDouble	8	Yes			No	No			
d_labresult	units	dbText	10	Yes			No	Yes		unit	e_unit
d_labresult	sig_figs	dbInteger	2	Yes			No	No			
d_labresult	std_dev	dbDouble	8	No			No	No			
d_labresult	detection_limit	dbDouble	8	No			No	No			
d_labresult	reporting_limit	dbDouble	8	No			No	No			
d_labresult	quantification_limit	dbDouble	8	No			No	No			
d_labresult	maximum_limit	dbDouble	8	No			No	No			
d_labresult	lab_conc_qual	dbText	1	No			No	No			
d_labresult	lab_flags	dbText	8	No			No	No			
d_labresult	qa_level	dbText	10	Yes			No	Yes		qa_level	e_qalevel
d_labresult	undetected	dbBoolean	1	Yes			No	No			
d_labresult	estimated	dbBoolean	1	Yes			No	No			
d_labresult	rejected	dbBoolean	1	Yes			No	No			
d_labresult	greater_than	dbBoolean	1	Yes			No	No			
d_labresult	tic	dbBoolean	1	Yes			No	No			
d_labresult	reportable	dbBoolean	1	Yes			No	No			
d_labresult	analresult_alias	dbLong	4	No			No	No			
d_labresult	principal_doc	dbText	12	Yes			No	Yes		doc_id	d_document
d_labresult	comments	dbMemo	0	No			No	No			
d_labresult	validator_flags	dbText	8	No			No	No			
d_labresult	lab_qc_batch	dbText	16	No			No	No			
d_labresult	lab_cal_batch	dbText	16	No			No	No			
d_labsample	lab	dbText	10	No			Yes	Yes	lab; labsample;	lab	e_lab
d_labsample	labsample	dbText	20	No			Yes	No	lab; labsample;		
d_labsample	study_id	dbText	25	No			No	Yes		study_id	d_sampsplit
d_labsample	sample_no	dbText	20	No			No	Yes		sample_no	d_sampsplit
d_labsample	bioaccum_sno	dbText	20	No			No	No			
d_labsample	fldqc_sno	dbText	20	No			No	No			
d_labsample	labqc_samp	dbText	20	No			No	No			
d_labsample	receipt_date	dbDate	8	No			No	No			
d_labsample	coc_id	dbText	12	No			No	No			
d_lcs	lab	dbText	10	Yes			Yes	No	lab; lab_qc_batch; lcs_id; analyte; meas_basis;		
d_lcs	lab_qc_batch	dbText	16	Yes			Yes	No	lab; lab_qc_batch; lcs_id; analyte; meas_basis;		
d_lcs	lcs_id	dbText	25	Yes			Yes	No	lab; lab_qc_batch; lcs_id; analyte; meas_basis;		
d_lcs	analyte	dbText	10	Yes			Yes	No	lab; lab_qc_batch; lcs_id; analyte; meas_basis;		
d_lcs	meas_basis	dbText	10	Yes			Yes	No	lab; lab_qc_batch; lcs_id; analyte; meas_basis;		
d_lcs	lcs_type	dbText	1	Yes			No	No	lab; lab_qc_batch; lcs_id; analyte; meas_basis;		
d_lcs	true_lcs_conc	dbDouble	8	Yes			No	No			
d_lcs	meas_lcs_conc	dbDouble	8	Yes			No	No			
d_lcs	lcs_lowlimit	dbDouble	8	No			No	No			
d_lcs	lcs_highlimit	dbDouble	8	No			No	No			
d_lcs	units	dbText	10	Yes			No	No			
d_lcs	conc_qual	dbText	1	No			No	No			
d_location	location_id	dbText	60	No			Yes	No	location_id;		
d_location	description	dbText	150	No			No	No			
d_location	loc_type	dbText	15	No			No	No			
d_location	defining_doc	dbText	12	No			No	Yes		doc_id	d_document
d_location	loc_geom	dbText	255	No			No	No			
d_location	elevation	dbSingle	4	No			No	No			
d_location	elev_unit	dbText	10	No			No	No			
d_location	huc	dbText	10	No			No	No			
d_location	river_mile	dbSingle	4	No			No	No			
d_location	river_bank	dbText	8	No			No	Yes		river_bank	e_riverbank
d_location	x_coord	dbDouble	8	No			No	No			
d_location	y_coord	dbDouble	8	No			No	No			
d_location	coord_sys	dbText	30	No			No	No			
d_location	srid	dbInteger	2	No			No	Yes		srid	e_spatialrefsys
d_location	coord_qual	dbText	10	No			No	Yes		coord_qual	e_coordqual
d_location	comments	dbMemo	0	No			No	No			
d_matrixspike	lab	dbText	10	Yes			Yes	Yes	lab; lab_qc_batch; labsample; method_code; analyte; meas_basis; spike_no;	lab	d_labqcbatch
d_matrixspike	lab_qc_batch	dbText	16	Yes			Yes	Yes	lab; lab_qc_batch; labsample; method_code; analyte; meas_basis; spike_no;	lab_qc_batch	d_labqcbatch
d_matrixspike	labsample	dbText	20	Yes			Yes	No	lab; lab_qc_batch; labsample; method_code; analyte; meas_basis; spike_no;		
d_matrixspike	method_code	dbText	10	Yes			Yes	No	lab; lab_qc_batch; labsample; method_code; analyte; meas_basis; spike_no;		
d_matrixspike	analyte	dbText	16	Yes			Yes	No	lab; lab_qc_batch; labsample; method_code; analyte; meas_basis; spike_no;		
d_matrixspike	meas_basis	dbText	10	Yes			Yes	No	lab; lab_qc_batch; labsample; method_code; analyte; meas_basis; spike_no;		
d_matrixspike	spike_no	dbLong	4	Yes			Yes	No	lab; lab_qc_batch; labsample; method_code; analyte; meas_basis; spike_no;		
d_matrixspike	samp_conc	dbDouble	8	Yes			No	No			
d_matrixspike	initial_qual	dbText	1	No			No	No			
d_matrixspike	spike_added	dbDouble	8	Yes			No	No			
d_matrixspike	spiked_conc	dbDouble	8	Yes			No	No			

d_matrixspike	final_qual	dbText	1	No	character varying(1)	No	No			
d_matrixspike	lab_flags	dbText	8	No	character varying(8)	No	No			
d_matrixspike	units	dbText	10	Yes	character varying(10)	No	No			
d_mblksurr	lab	dbText	10	Yes	character varying(10)	Yes	Yes	lab; lab_qc_batch; labsample; method_code; surrogate; column_no;	lab	d_labqcbatch
d_mblksurr	lab_qc_batch	dbText	16	Yes	character varying(16)	Yes	Yes	lab; lab_qc_batch; labsample; method_code; surrogate; column_no;	lab_qc_batch	d_labqcbatch
d_mblksurr	labsample	dbText	20	Yes	character varying(20)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; column_no;		
d_mblksurr	method_code	dbText	15	Yes	character varying(15)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; column_no;		
d_mblksurr	surrogate	dbText	16	Yes	character varying(16)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; column_no;		
d_mblksurr	column_no	dbText	4	Yes	character varying(4)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; column_no;		
d_mblksurr	recovery	dbDouble	8	Yes	double precision	No	No	lab; lab_qc_batch; labsample; method_code; surrogate; column_no;		
d_mblksurr	out_flag	dbText	1	No	character varying(1)	No	No			
d_methodblank	lab	dbText	10	Yes	character varying(10)	Yes	Yes	lab; lab_qc_batch; labsample; method_code; analyte; lab_rep;	lab	d_labsample
d_methodblank	lab_qc_batch	dbText	16	Yes	character varying(16)	Yes	Yes	lab; lab_qc_batch; labsample; method_code; analyte; lab_rep;	lab_qc_batch	d_labqcbatch
d_methodblank	labsample	dbText	20	Yes	character varying(20)	Yes	Yes	lab; lab_qc_batch; labsample; method_code; analyte; lab_rep;	labsample	d_labsample
d_methodblank	method_code	dbText	15	Yes	character varying(15)	Yes	No	lab; lab_qc_batch; labsample; method_code; analyte; lab_rep;		
d_methodblank	analyte	dbText	16	Yes	character varying(16)	Yes	No	lab; lab_qc_batch; labsample; method_code; analyte; lab_rep;		
d_methodblank	lab_rep	dbText	6	Yes	character varying(6)	Yes	No	lab; lab_qc_batch; labsample; method_code; analyte; lab_rep;		
d_methodblank	concentration	dbDouble	8	No	double precision	No	No			
d_methodblank	retention_time	dbDouble	8	No	double precision	No	No			
d_methodblank	units	dbText	10	Yes	character varying(10)	No	No			
d_methodblank	lab_flags	dbText	8	No	character varying(8)	No	No			
d_party	party_id	dbText	16	Yes	character varying(16)	Yes	No	party_id;		
d_party	party_name	dbText	120	No	character varying(120)	No	No			
d_party	party_type	dbText	12	Yes	character varying(12)	No	Yes		party_type	e_partytype
d_party	title	dbMemo	0	No	character varying(255) or character varying	No	No			
d_party	phone	dbText	16	No	character varying(16)	No	No			
d_party	state_incorp	dbMemo	0	No	character varying(255) or character varying	No	No			
d_partyprop	party_id	dbText	16	Yes	character varying(16)	Yes	No	party_id; property_id;		
d_partyprop	property_id	dbText	40	Yes	character varying(40)	Yes	No	party_id; property_id;		
d_partyprop	property_rel	dbText	10	Yes	character varying(10)	No	No			
d_partyprop	beginning_date	dbDate	8	No	timestamp without time zone	No	No			
d_partyprop	ending_date	dbDate	8	No	timestamp without time zone	No	No			
d_partyprop	doc_id	dbText	12	Yes	character varying(12)	No	No			
d_property	property_id	dbText	40	Yes	character varying(40)	Yes	No	property_id;		
d_property	street	dbMemo	0	No	character varying(255) or character varying	No	No			
d_property	street_addr2	dbMemo	0	No	character varying(255) or character varying	No	No			
d_property	city	dbMemo	0	No	character varying(255) or character varying	No	No			
d_property	state_province	dbMemo	0	No	character varying(255) or character varying	No	No			
d_property	postal_code	dbText	10	No	character varying(10)	No	No			
d_property	country	dbMemo	0	No	character varying(255) or character varying	No	No			
d_property	legal_description	dbMemo	0	No	character varying(255) or character varying	No	No			
d_property	area_id	dbText	40	No	character varying(40)	No	No			
d_sampchar	study_id	dbText	25	Yes	character varying(25)	Yes	No	study_id; sampcoll_id; sampchar_type; sampchar;		
d_sampchar	sampcoll_id	dbText	20	Yes	character varying(20)	Yes	No	study_id; sampcoll_id; sampchar_type; sampchar;		
d_sampchar	sampchar_type	dbText	12	Yes	character varying(12)	Yes	Yes	study_id; sampcoll_id; sampchar_type; sampchar;	sampchar_type	e_sampcharcode
d_sampchar	sampchar	dbText	16	Yes	character varying(16)	Yes	Yes	study_id; sampcoll_id; sampchar_type; sampchar;	sampchar	e_sampcharcode
d_sampchar	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_sampcoll	study_id	dbText	25	No	character varying(25)	Yes	Yes	study_id; sampcoll_id;	study_id	d_studylocation
d_sampcoll	sampcoll_id	dbText	20	No	character varying(20)	Yes	No	study_id; sampcoll_id;		
d_sampcoll	study_loc_id	dbText	60	No	character varying(60)	No	Yes		study_loc_id	d_studylocation
d_sampcoll	sample_date	dbDate	8	No	timestamp without time zone	No	No			
d_sampcoll	sample_material	dbText	20	No	character varying(20)	No	Yes		sample_material	e_sampmaterial
d_sampcoll	composite_type	dbText	16	No	character varying(16)	No	Yes		composite_type	e_composite
d_sampcoll	composite_period	dbSingle	4	No	real	No	No			
d_sampcoll	composite_period_units	dbText	8	No	character varying(8)	No	No			
d_sampcoll	composite_count	dbInteger	2	No	smallint	No	No			
d_sampcoll	samp_loc_points	dbMemo	0	No	character varying(255) or character varying	No	No			
d_sampcoll	sampcoll_alias	dbLong	4	No	bigserial or integer	No	No			
d_sampcoll	fldqc_group	dbText	12	No	character varying(12)	No	No			
d_sampcoll	srn_id	dbText	32	No	character varying(32)	No	No			
d_sampcoll	coll_gear	dbText	12	No	character varying(12)	No	Yes		gear	e_fieldgear
d_sampcoll	coll_sop	dbText	12	No	character varying(12)	No	No			
d_sampcoll	coll_scheme	dbText	10	No	character varying(10)	No	Yes		coll_scheme	e_collscheme
d_sampcoll	taxon_code	dbText	16	No	character varying(16)	No	No			
d_sampcoll	coll_upper_depth	dbSingle	4	No	real	No	No			
d_sampcoll	coll_lower_depth	dbSingle	4	No	real	No	No			
d_sampcoll	coll_depth_units	dbText	10	No	character varying(10)	No	Yes		unit	e_unit
d_sampcoll	coll_success	dbText	10	No	character varying(10)	No	No			
d_sampcoll	water_depth	dbSingle	4	No	real	No	No			
d_sampcoll	water_depth_units	dbText	10	No	character varying(10)	No	Yes			
d_sampcoll	flood_stage	dbText	10	No	character varying(10)	No	No		unit	e_unit
d_sampcoll	water_gauge	dbSingle	4	No	real	No	No			
d_sampcoll	water_gauge_units	dbText	10	No	character varying(10)	No	No			

d_sampcoll	weather	dbText	10	No	character varying(10)	No	No			
d_sampcoll	tide_stage	dbText	10	No	character varying(10)	No	No			
d_sampcoll	tide_height	dbSingle	4	No	real	No	No			
d_sampcoll	tide_height_units	dbText	10	No	character varying(10)	No	No			
d_sampcoll	sampler	dbText	32	No	character varying(32)	No	No			
d_sampcoll	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_sampdoc	study_id	dbText	25	No	character varying(25)	Yes	Yes	study_id; sample_id; doc_id;	study_id	d_sampmain
d_sampdoc	sample_id	dbText	20	No	character varying(20)	Yes	Yes	study_id; sample_id; doc_id;	sample_id	d_sampmain
d_sampdoc	doc_id	dbText	12	No	character varying(12)	Yes	Yes	study_id; sample_id; doc_id;	doc_id	d_document
d_sampdoc	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_sampmain	study_id	dbText	25	No	character varying(25)	Yes	Yes	study_id; sample_id;	study_id	d_sampcoll
d_sampmain	sampcoll_id	dbText	20	No	character varying(20)	No	Yes		sampcoll_id	d_sampcoll
d_sampmain	sample_id	dbText	20	No	character varying(20)	Yes	No			
d_sampmain	subsamp_type	dbText	10	No	character varying(10)	No	Yes		subsamp_type	e_subsamptype
d_sampmain	sample_material	dbText	20	No	character varying(20)	No	Yes		sample_material	e_sampmaterial
d_sampmain	description	dbMemo	0	No	character varying(255) or character varying	No	No			
d_sampmain	sample_treatment	dbText	20	No	character varying(20)	No	Yes		sample_treatment	e_samptrat
d_sampmain	original_id	dbText	32	No	character varying(32)	No	No			
d_sampmain	sample_alias	dbLong	4	No	bigserial or integer	No	No			
d_sampmain	defining_doc	dbText	12	No	character varying(12)	No	Yes		doc_id	d_document
d_sampmain	fieldqc_batch	dbText	12	No	character varying(12)	No	No			
d_sampmain	upper_depth	dbSingle	4	No	real	No	No			
d_sampmain	lower_depth	dbSingle	4	No	real	No	No			
d_sampmain	depth_units	dbText	10	No	character varying(10)	No	Yes		unit	e_unit
d_sampmain	taxon	dbText	16	No	character varying(16)	No	Yes		taxon_code	e_taxon
d_sampmain	field_prep_method	dbText	10	No	character varying(10)	No	Yes		field_prep_method	e_fieldprep
d_sampmeas	study_id	dbText	25	Yes	character varying(25)	Yes	Yes	study_id; sampcoll_id; samp_measurement; field_meas_method; replicate;	study_id	d_sampcoll
d_sampmeas	sampcoll_id	dbText	20	Yes	character varying(20)	Yes	Yes	study_id; sampcoll_id; samp_measurement; field_meas_method; replicate;	sampcoll_id	d_sampcoll
d_sampmeas	samp_measurement	dbText	16	Yes	character varying(16)	Yes	Yes	study_id; sampcoll_id; samp_measurement; field_meas_method; replicate;	samp_measurement	e_sampmeascode
d_sampmeas	field_meas_method	dbText	12	No	character varying(12)	Yes	Yes	study_id; sampcoll_id; samp_measurement; field_meas_method; replicate;	field_meas_method	e_fieldmeasmethod
d_sampmeas	replicate	dbText	6	No	character varying(6)	Yes	No	study_id; sampcoll_id; samp_measurement; field_meas_method; replicate;		
d_sampmeas	meas_value	dbDouble	8	Yes	double precision	No	No			
d_sampmeas	units	dbText	10	Yes	character varying(10)	No	Yes		unit	e_unit
d_sampmeas	sig_figs	dbInteger	2	Yes	smallint	No	No			
d_sampmeas	std_dev	dbDouble	8	No	double precision	No	No			
d_sampmeas	undetected	dbBoolean	1	Yes	boolean	No	No			
d_sampmeas	estimated	dbBoolean	1	Yes	boolean	No	No			
d_sampmeas	rejected	dbBoolean	1	Yes	boolean	No	No			
d_sampmeas	greater_than	dbBoolean	1	Yes	boolean	No	No			
d_sampmeas	qa_level	dbText	10	Yes	character varying(10)	No	Yes		qa_level	e_qalevel
d_sampmeas	reportable	dbBoolean	1	Yes	boolean	No	No			
d_sampmeas	principal_doc	dbText	12	Yes	character varying(12)	No	Yes		doc_id	d_document
d_sampmeas	validator_flags	dbText	8	No	character varying(8)	No	No			
d_sampmeas	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_sampsplit	study_id	dbText	25	No	character varying(25)	Yes	Yes	study_id; sample_no;	study_id	d_sampmain
d_sampsplit	sample_no	dbText	20	No	character varying(20)	Yes	No	study_id; sample_no;		
d_sampsplit	sample_id	dbText	20	No	character varying(20)	No	Yes		sample_id	d_sampmain
d_sampsplit	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_spabund	study_id	dbText	25	No	character varying(25)	Yes	Yes	study_id; sample_id; taxon; sex; life_stage;	study_id	d_sampmain
d_spabund	sample_id	dbText	20	No	character varying(20)	Yes	Yes	study_id; sample_id; taxon; sex; life_stage;	sample_id	d_sampmain
d_spabund	taxon	dbText	16	No	character varying(16)	Yes	Yes	study_id; sample_id; taxon; sex; life_stage;	taxon_code	e_taxon
d_spabund	sex	dbText	1	No	character varying(1)	Yes	Yes	study_id; sample_id; taxon; sex; life_stage;	sex	e_sex
d_spabund	life_stage	dbText	10	No	character varying(10)	Yes	Yes	study_id; sample_id; taxon; sex; life_stage;	life_stage	e_lifestage
d_spabund	abundance	dbSingle	4	No	real	No	No			
d_spabund	abund_units	dbText	10	No	character varying(10)	No	Yes		unit	e_unit
d_spatialdata	data_set_name	dbText	36	Yes	character varying(36)	Yes	No	data_set_name;		
d_spatialdata	description	dbMemo	0	Yes	character varying(255) or character varying	No	No			
d_spatialdata	geometry_type	dbText	10	Yes	character varying(10)	No	No			
d_spatialdata	srId	dbLong	4	Yes	bigserial or integer	No	No			
d_spatialdata	coord_sys	dbText	30	Yes	character varying(30)	No	No			
d_spatialdata	data_manager	dbText	50	Yes	character varying(50)	No	No			
d_spatialdata	metadata_updated	dbDate	8	Yes	timestamp without time zone	No	No			
d_spatialdata	dataset_status	dbText	15	Yes	character varying(15)	No	Yes		workflow	e_workflow
d_spatialdata	metadata_status	dbText	15	Yes	character varying(15)	No	No			
d_spatialdata	data_origin	dbMemo	0	Yes	character varying(255) or character varying	No	No			
d_spatialdata	defining_doc	dbText	12	Yes	character varying(12)	No	No			
d_spatialdata	data_conversion	dbMemo	0	Yes	character varying(255) or character varying	No	No			
d_spatialdata	data_class	dbText	16	Yes	character varying(16)	No	No			
d_spatialdata	original_coord_sys	dbText	30	Yes	character varying(30)	No	No			
d_spatialdata	superceded_by	dbInteger	2	No	smallint	No	No			
d_spatialdata	original_name	dbText	64	No	character varying(64)	No	No			
d_spatialdata	original_format	dbText	10	No	character varying(10)	No	No			
d_spatialdata	original_metadata	dbText	50	No	character varying(50)	No	No			

d_spatialdata	original_source	dbText	64	No	character varying(64)	No	No			
d_spatialdata	data_table	dbText	64	Yes	character varying(64)	No	No			
d_spatialdata	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_study	study_id	dbText	25	No	character varying(25)	Yes	No	study_id;		
d_study	full_name	dbMemo	0	No	character varying(255) or character varying	No	No			
d_study	sponsor	dbText	80	No	character varying(80)	No	No			
d_study	contact	dbText	80	No	character varying(80)	No	No			
d_study	qa_level	dbText	10	No	character varying(10)	No	Yes		qa_level	e_qalevel
d_study	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_study	primary_doc	dbText	12	No	character varying(12)	No	Yes		doc_id	d_document
d_study	qa_doc	dbText	12	No	character varying(12)	No	Yes		doc_id	d_document
d_study	qa_comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_studylocation	study_id	dbText	25	No	character varying(25)	Yes	Yes	study_id; study_loc_id;	study_id	d_study
d_studylocation	study_loc_id	dbText	60	No	character varying(60)	Yes	No	study_id; study_loc_id;		
d_studylocation	location_id	dbText	60	No	character varying(60)	No	Yes		location_id	d_location
d_studylocation	reference_loc	dbBoolean	1	No	boolean	No	No			
d_studylocation	defining_doc	dbText	12	Yes	character varying(12)	No	Yes		doc_id	d_document
d_studylocation	loc_method	dbText	10	No	character varying(10)	No	No			
d_studylocation	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_studylocation	site	dbText	40	No	character varying(40)	No	No			
d_studylocation	description	dbMemo	0	No	character varying(255) or character varying	No	No			
d_studylocation	elevation	dbSingle	4	No	real	No	No			
d_studylocation	elev_unit	dbText	10	No	character varying(10)	No	No			
d_studyloccoord	study_id	dbText	25	No	character varying(25)	Yes	Yes	study_id; study_loc_id; y_coord; x_coord;	study_id	d_studylocation
d_studyloccoord	study_loc_id	dbText	60	No	character varying(60)	Yes	Yes	study_id; study_loc_id; y_coord; x_coord;	study_loc_id	d_studylocation
d_studyloccoord	loc_method	dbText	10	No	character varying(10)	No	No			
d_studyloccoord	coord_geom	dbText	255	No	character varying(255)	No	No			
d_studyloccoord	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_studyloccoord	defining_doc	dbText	12	No	character varying(12)	No	Yes		doc_id	d_document
d_studyloccoord	x_coord	dbSingle	4	No	real	Yes	No			
d_studyloccoord	y_coord	dbDouble	8	No	double precision	Yes	No			
d_studyloccoord	coord_sys	dbText	30	No	character varying(30)	No	No			
d_studyloccoord	srid	dbInteger	2	Yes	smallint	No	Yes		srid	e_spatialrefsys
d_studyloccoord	x_original	dbDouble	8	No	double precision	No	No			
d_studyloccoord	y_original	dbDouble	8	No	double precision	No	No			
d_studyloccoord	srid_original	dbLong	4	No	bigserial or integer	No	No			
d_studyloccoord	coord_qual	dbText	10	No	character varying(10)	No	Yes		coord_qual	e_coordqual
d_surrogate	lab	dbText	10	Yes	character varying(10)	Yes	Yes	lab; lab_qc_batch; labsample; method_code; surrogate; meas_basis; column_no; lab_rep;	lab	d_labqcbatch
d_surrogate	lab_qc_batch	dbText	16	Yes	character varying(16)	Yes	Yes	lab; lab_qc_batch; labsample; method_code; surrogate; meas_basis; column_no; lab_rep;	lab_qc_batch	d_labqcbatch
d_surrogate	labsample	dbText	20	Yes	character varying(20)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; meas_basis; column_no; lab_rep;		
d_surrogate	method_code	dbText	15	Yes	character varying(15)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; meas_basis; column_no; lab_rep;		
d_surrogate	surrogate	dbText	16	Yes	character varying(16)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; meas_basis; column_no; lab_rep;		
d_surrogate	meas_basis	dbText	10	Yes	character varying(10)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; meas_basis; column_no; lab_rep;		
d_surrogate	column_no	dbText	2	Yes	character varying(2)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; meas_basis; column_no; lab_rep;		
d_surrogate	lab_rep	dbText	4	Yes	character varying(4)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; meas_basis; column_no; lab_rep;		
d_surrogate	recovery	dbDouble	8	Yes	double precision	No	No			
d_surrogate	out_flag	dbText	1	No	character varying(1)	No	No			
e_analmethod	method_code	dbText	15	No	character varying(15)	Yes	No	method_code;		
e_analmethod	description	dbText	255	No	character varying(255)	No	No			
e_analmethod	lab_leach_method	dbText	10	No	character varying(10)	No	Yes		lab_leach_method	e_leachmethod
e_analmethod	lab_prep_method	dbText	10	No	character varying(10)	No	Yes		lab_prep_method	e_labprep
e_analmethod	lab_extraction_method	dbText	10	No	character varying(10)	No	Yes		lab_extraction_method	e_labextract
e_analmethod	lab_anal_method	dbText	10	No	character varying(10)	No	Yes		lab_anal_method	e_labmethod
e_analtype	anal_type	dbText	10	Yes	character varying(10)	Yes	No	anal_type;		
e_analtype	description	dbText	255	Yes	character varying(255)	No	No			
e_analyte	analyte	dbText	16	No	character varying(16)	Yes	No	analyte;		
e_analyte	full_name	dbText	120	No	character varying(120)	No	No			
e_analyte	chem_class	dbText	10	No	character varying(10)	No	Yes		chem_class	e_chemclass
e_analyte	aliases	dbMemo	0	No	character varying(255) or character varying	No	No			
e_analyte	cas_rn	dbText	32	No	character varying(32)	No	No			
e_areatype	area_type	dbText	10	Yes	character varying(10)	Yes	No	area_type;		
e_areatype	description	dbText	255	Yes	character varying(255)	No	No			
e_bioasmeas	bioas_meas	dbText	10	No	character varying(10)	Yes	No	bioas_meas;		
e_bioasmeas	description	dbText	255	No	character varying(255)	No	No			
e_bioasqual	bioas_qual	dbText	2	Yes	character varying(2)	Yes	No	bioas_qual;		

e_bioasqual	description	dbText	255	Yes	character varying(255)	No	No
e_bioastype	bioas_type	dbText	10	Yes	character varying(10)	Yes	bioas_type;
e_bioastype	description	dbText	255	Yes	character varying(255)	No	No
e_bioasunit	bioas_unit	dbText	10	Yes	character varying(10)	Yes	bioas_unit;
e_bioasunit	description	dbText	255	Yes	character varying(255)	No	No
e_bioasvar	bioas_var	dbText	10	Yes	character varying(10)	Yes	bioas_var;
e_bioasvar	description	dbText	255	Yes	character varying(255)	No	No
e_chemclass	chem_class	dbText	10	Yes	character varying(10)	Yes	chem_class;
e_chemclass	description	dbText	255	No	character varying(255)	No	No
e_collscheme	coll_scheme	dbText	10	Yes	character varying(10)	Yes	coll_scheme;
e_collscheme	description	dbText	255	Yes	character varying(255)	No	No
e_composite	composite_type	dbText	16	Yes	character varying(16)	Yes	composite_type;
e_composite	description	dbText	255	No	character varying(255)	No	No
e_concqual	conc_qual	dbText	1	No	character varying(1)	Yes	conc_qual;
e_concqual	description	dbText	255	No	character varying(255)	No	No
e_coordqual	coord_qual	dbText	10	No	character varying(10)	Yes	coord_qual;
e_coordqual	description	dbText	150	No	character varying(150)	No	No
e_dataclass	data_class	dbText	16	No	character varying(16)	Yes	data_class;
e_dataclass	description	dbText	255	No	character varying(255)	No	No
e_dataformat	data_format	dbText	10	No	character varying(10)	Yes	data_format;
e_dataformat	description	dbText	255	No	character varying(255)	No	No
e_dimension	dimension	dbText	5	Yes	character varying(5)	Yes	dimension;
e_dimension	description	dbText	255	No	character varying(255)	No	No
e_doccat	doc_cat	dbText	24	Yes	character varying(24)	Yes	doc_cat;
e_doccat	description	dbText	255	Yes	character varying(255)	No	No
e_docrel	doc_rel	dbText	12	Yes	character varying(12)	Yes	doc_rel;
e_docrel	description	dbText	255	No	character varying(255)	No	No
e_doctype	doc_type	dbText	50	Yes	character varying(50)	Yes	doc_type;
e_doctype	description	dbText	255	No	character varying(255)	No	No
e_eventtype	event_type	dbText	10	No	character varying(10)	Yes	event_type;
e_eventtype	description	dbText	255	No	character varying(255)	No	No
e_fieldgear	gear	dbText	12	Yes	character varying(12)	Yes	gear;
e_fieldgear	description	dbText	255	Yes	character varying(255)	No	No
e_fieldmeasmethod	field_meas_method	dbText	12	No	character varying(12)	Yes	field_meas_method;
e_fieldmeasmethod	description	dbText	255	No	character varying(255)	No	No
e_fieldprep	field_prep_method	dbText	10	Yes	character varying(10)	Yes	field_prep_method;
e_fieldprep	description	dbText	255	Yes	character varying(255)	No	No
e_geometrytype	geometry_type	dbText	10	No	character varying(10)	Yes	geometry_type;
e_geometrytype	description	dbText	255	No	character varying(255)	No	No
e_guidelinetype	guideline_type	dbText	10	No	character varying(10)	Yes	guideline_type;
e_guidelinetype	description	dbText	255	No	character varying(255)	No	No
e_keyword	keyword	dbText	25	Yes	character varying(25)	Yes	keyword;
e_keyword	description	dbText	255	No	character varying(255)	No	No
e_lab	lab	dbText	10	Yes	character varying(10)	Yes	lab;
e_lab	lab_name	dbText	255	Yes	character varying(255)	No	No
e_lab	street	dbText	255	No	character varying(255)	No	No
e_lab	city	dbText	255	No	character varying(255)	No	No
e_lab	state	dbText	255	No	character varying(255)	No	No
e_lab	postal_code	dbText	10	No	character varying(10)	No	No
e_lab	contact	dbText	255	No	character varying(255)	No	No
e_lab	province	dbText	20	No	character varying(20)	No	No
e_lab	country	dbText	12	No	character varying(12)	No	No
e_labextract	lab_extraction_method	dbText	10	Yes	character varying(10)	Yes	lab_extraction_method;
e_labextract	description	dbText	255	Yes	character varying(255)	No	No
e_labinstrument	instrument_type	dbText	10	Yes	character varying(10)	Yes	instrument_type;
e_labinstrument	description	dbText	255	No	character varying(255)	No	No
e_labmethod	lab_anal_method	dbText	10	Yes	character varying(10)	Yes	lab_anal_method;
e_labmethod	description	dbText	255	Yes	character varying(255)	No	No
e_labprep	lab_prep_method	dbText	10	Yes	character varying(10)	Yes	lab_prep_method;
e_labprep	description	dbText	255	Yes	character varying(255)	No	No
e_lcstype	lcs_type	dbText	1	Yes	character varying(1)	Yes	lcs_type;
e_lcstype	description	dbText	255	Yes	character varying(255)	No	No
e_leachmethod	lab_leach_method	dbText	10	Yes	character varying(10)	Yes	lab_leach_method;
e_leachmethod	description	dbText	255	Yes	character varying(255)	No	No
e_lesionsev	lesion_severity	dbText	15	Yes	character varying(15)	Yes	lesion_severity;
e_lesionsev	description	dbText	255	Yes	character varying(255)	No	No
e_lesiontype	lesion_type	dbText	6	Yes	character varying(6)	Yes	lesion_type;
e_lesiontype	description	dbText	150	Yes	character varying(150)	No	No
e_lesiontype	carcinoma	dbBoolean	1	Yes	boolean	No	No
e_lifestage	life_stage	dbText	10	Yes	character varying(10)	Yes	life_stage;
e_lifestage	description	dbText	255	Yes	character varying(255)	No	No
e_locmethod	loc_method	dbText	10	Yes	character varying(10)	Yes	loc_method;
e_locmethod	description	dbText	255	Yes	character varying(255)	No	No

e_locitype	loc_type	dbText	15	Yes	character varying(15)	Yes	No	loc_type;		
e_locitype	description	dbText	255	Yes	character varying(255)	No	No			
e_material	material	dbText	20	No	character varying(20)	Yes	No	material;		
e_material	description	dbText	255	No	character varying(255)	No	No			
e_matrix	matrix	dbText	1	Yes	character varying(1)	Yes	No	matrix;		
e_matrix	description	dbText	255	Yes	character varying(255)	No	No			
e_measbasis	meas_basis	dbText	10	Yes	character varying(10)	Yes	No	meas_basis;		
e_measbasis	description	dbText	255	Yes	character varying(255)	No	No			
e_outflag	out_flag	dbText	1	Yes	character varying(1)	Yes	No	out_flag;		
e_outflag	description	dbText	255	Yes	character varying(255)	No	No			
e_partyproprel	property_rel	dbText	10	No	character varying(10)	Yes	No	property_rel;		
e_partyproprel	description	dbText	255	No	character varying(255)	No	No			
e_partyrole	party_role	dbText	10	No	character varying(10)	Yes	No	party_role;		
e_partyrole	description	dbText	255	No	character varying(255)	No	No			
e_partytype	party_type	dbText	12	No	character varying(12)	Yes	No	party_type;		
e_partytype	description	dbText	255	No	character varying(255)	No	No			
e_qalevel	qa_level	dbText	10	Yes	character varying(10)	Yes	No	qa_level;		
e_qalevel	description	dbText	255	Yes	character varying(255)	No	No			
e_qctype	qc_type	dbText	12	Yes	character varying(12)	Yes	No	qc_type;		
e_qctype	description	dbText	255	Yes	character varying(255)	No	No			
e_resource	resource	dbText	10	No	character varying(10)	Yes	No	resource;		
e_resource	description	dbText	255	No	character varying(255)	No	No			
e_riverbank	river_bank	dbText	8	Yes	character varying(8)	Yes	No	river_bank;		
e_riverbank	description	dbText	255	Yes	character varying(255)	No	No			
e_sampcharcode	sampchar_type	dbText	12	Yes	character varying(12)	Yes	Yes	sampchar_type; sampchar;	sampchar_type	e_sampcharcodetype
e_sampcharcode	sampchar	dbText	16	Yes	character varying(16)	Yes	No	sampchar_type; sampchar;		
e_sampcharcode	description	dbMemo	0	Yes	character varying(255) or character varying	No	No			
e_sampcharcodetype	sampchar_type	dbText	12	No	character varying(12)	Yes	No	sampchar_type;		
e_sampcharcodetype	description	dbText	255	No	character varying(255)	No	No			
e_sampmaterial	sample_material	dbText	20	Yes	character varying(20)	Yes	No	sample_material;		
e_sampmaterial	description	dbText	255	No	character varying(255)	No	No			
e_sampmaterial	material	dbText	20	No	character varying(20)	No	Yes		material	e_material
e_sampmaterial	matrix	dbText	1	Yes	character varying(1)	No	Yes		matrix	e_matrix
e_sampmeascode	samp_measurement	dbText	16	No	character varying(16)	Yes	No	samp_measurement;		
e_sampmeascode	description	dbText	255	No	character varying(255)	No	No			
e_samptreat	sample_treatment	dbText	20	No	character varying(20)	Yes	No	sample_treatment;		
e_samptreat	description	dbText	255	No	character varying(255)	No	No			
e_sex	sex	dbText	1	Yes	character varying(1)	Yes	No	sex;		
e_sex	description	dbText	255	Yes	character varying(255)	No	No			
e_spatialrefsys	srid	dbInteger	2	No	smallint	Yes	No	srid;		
e_spatialrefsys	description	dbText	200	No	character varying(200)	No	No			
e_spatialrefsys	srtxt	dbMemo	0	No	character varying(255) or character varying	No	No			
e_subsamptype	subsamp_type	dbText	10	Yes	character varying(10)	Yes	No	subsamp_type;		
e_subsamptype	description	dbText	255	No	character varying(255)	No	No			
e_taxon	taxon_code	dbText	16	Yes	character varying(16)	Yes	No	taxon_code;		
e_taxon	kingdom	dbText	255	No	character varying(255)	No	No			
e_taxon	phylum	dbText	255	No	character varying(255)	No	No			
e_taxon	tax_class	dbText	255	No	character varying(255)	No	No			
e_taxon	subclass	dbText	255	No	character varying(255)	No	No			
e_taxon	superorder	dbText	255	No	character varying(255)	No	No			
e_taxon	tax_order	dbText	255	No	character varying(255)	No	No			
e_taxon	suborder	dbText	255	No	character varying(255)	No	No			
e_taxon	superfamily	dbText	255	No	character varying(255)	No	No			
e_taxon	family	dbText	255	No	character varying(255)	No	No			
e_taxon	subfamily	dbText	255	No	character varying(255)	No	No			
e_taxon	genus	dbText	255	No	character varying(255)	No	No			
e_taxon	species	dbText	255	No	character varying(255)	No	No			
e_taxon	subspecies	dbText	255	No	character varying(255)	No	No			
e_taxon	common_name	dbText	255	No	character varying(255)	No	No			
e_unit	unit	dbText	10	Yes	character varying(10)	Yes	No	unit;		
e_unit	description	dbText	255	No	character varying(255)	No	No			
e_unit	dimension	dbText	5	Yes	character varying(5)	No	Yes		dimension	e_dimension
e_unit	as_html	dbText	24	No	character varying(24)	No	No			
e_unit	addend1	dbSingle	4	Yes	real	No	No			
e_unit	factor	dbSingle	4	Yes	real	No	No			
e_unit	addend2	dbSingle	4	Yes	real	No	No			
e_unit	display	dbText	10	Yes	character varying(10)	No	No			
e_workflow	workflow	dbText	20	No	character varying(20)	Yes	No	workflow;		
i_chemlistdef	analyte_list	dbText	16	Yes	character varying(16)	Yes	No	analyte_list;		
i_chemlistdef	description	dbMemo	0	Yes	character varying(255) or character varying	No	No			
i_chemlistlist	analyte_list	dbText	16	Yes	character varying(16)	Yes	Yes	analyte_list; analyte;	analyte_list	i_chemlistdef
i_chemlistlist	analyte	dbText	16	Yes	character varying(16)	Yes	Yes	analyte_list; analyte;	analyte	e_analyte
i_chemlistlist	sort_order	dbLong	4	Yes	bigserial or integer	No	No			

i_chemsetdef	analyte_set	dbText	16	Yes	character varying(16)	Yes	No	analyte_set;		
i_chemsetdef	description	dbMemo	0	Yes	character varying(255) or character varying	No	No			
i_chemsetlist	analyte_set	dbText	16	Yes	character varying(16)	Yes	Yes	analyte_set; analyte_list;	analyte_set	i_chemsetdef
i_chemsetlist	analyte_list	dbText	16	Yes	character varying(16)	Yes	Yes	analyte_set; analyte_list;	analyte_list	i_chemlistdef
i_chemsetlist	sort_order	dbLong	4	Yes	bigserial or integer	No	No			
i_chemsumdef	sum_name	dbText	16	Yes	character varying(16)	Yes	No	sum_name;		
i_chemsumdef	description	dbMemo	0	Yes	character varying(255) or character varying	No	No			
i_chemsumdef	analyte	dbText	16	Yes	character varying(16)	No	No			
i_chemsumdef	sum_method	dbText	16	Yes	character varying(16)	No	No			
i_chemsumdef	defining_doc	dbText	12	No	character varying(12)	No	No			
i_chemsumdef	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
i_chemsumlist	sum_name	dbText	16	Yes	character varying(16)	Yes	Yes	sum_name; analyte;	sum_name	i_chemsumdef
i_chemsumlist	analyte	dbText	16	Yes	character varying(16)	Yes	No	sum_name; analyte;		
i_chemsumlist	weight	dbDouble	8	Yes	double precision	No	No			
i_chemsumlist	required	dbBoolean	1	Yes	boolean	No	No			
i_loclistdef	location_list	dbText	16	Yes	character varying(16)	Yes	No	location_list;		
i_loclistdef	description	dbMemo	0	Yes	character varying(255) or character varying	No	No			
i_loclistlist	location_list	dbText	16	Yes	character varying(16)	Yes	Yes	location_list; location_id;	location_list	i_loclistdef
i_loclistlist	location_id	dbText	50	No	character varying(50)	Yes	No	location_list; location_id;		
i_loclistlist	sort_order	dbDouble	8	No	double precision	No	No			
i_samplistdef	sample_list	dbText	16	Yes	character varying(16)	Yes	No	sample_list;		
i_samplistdef	description	dbMemo	0	Yes	character varying(255) or character varying	No	No			
i_samplistlist	sample_list	dbText	16	Yes	character varying(16)	Yes	Yes	sample_list; study_id; sample_id;	sample_list	i_samplistdef
i_samplistlist	study_id	dbText	25	Yes	character varying(25)	Yes	Yes	sample_list; study_id; sample_id;	study_id	d_sampmain
i_samplistlist	sample_id	dbText	16	Yes	character varying(16)	Yes	Yes	sample_list; study_id; sample_id;	sample_id	d_sampmain
i_samplistlist	sort_order	dbLong	4	Yes	bigserial or integer	No	No			

tbl_relation	tbl_primary	tbl_foreign	flds_primary	flds_foreign
{1079F7FD-DE44-4D0C-B792-1ABA80E1F5AD}	d_location	d_studylocation	location_id;	location_id;
{12D85CEC-3A9E-4B67-8126-AB3A02C8EB2F}	d_study	d_studylocation	study_id;	study_id;
{2F2ED6A7-B6AD-4C2A-B682-E83EC192190D}	d_sampmain	d_bioasdat	study_id; sample_id;	study_id; sample_id;
{339E3290-F14A-4FED-80C0-3BD9794F2709}	d_sampmain	d_sampsplit	study_id; sample_id;	study_id; sample_id;
{3A6E3BE7-3747-4A74-89D6-320AD88D86EA}	d_document	d_area	doc_id;	defining_doc;
{3EDB9A42-CD14-4741-A7B4-770966520F43}	d_bioasdat	d_bioasdat	lab; bioas_batch;	lab; bioas_batch;
{4AA74ED4-A445-4D51-A6F7-14CBDF9AAD57}	d_document	d_dockwd	doc_id;	doc_id;
{4F7B6A86-98B2-4544-A9F1-FC92963EDD2C}	d_sampsplit	d_labsample	study_id; sample_no;	study_id; sample_no;
{556BB6CD-AFDB-4153-A298-923BC1244DC7}	d_labsample	d_labresult	lab; labsample;	lab; labsample;
{6238003D-1B7C-4C5C-B178-706D7411D6F5}	d_document	d_studyloccoord	doc_id;	defining_doc;
{64AC85C0-AD87-4FD9-87F8-335430610EC4}	d_document	d_studylocation	doc_id;	defining_doc;
{6E206204-7A18-485C-899E-33188134F6E1}	d_document	d_sampmain	doc_id;	defining_doc;
{93E9C4DB-8BF3-4EEC-8995-45EF3999926D}	d_document	d_location	doc_id;	defining_doc;
{97E83077-5A23-4E5C-A039-37FCF4A7472A}	d_document	d_labresult	doc_id;	principal_doc;
{BDFDCCCB-91DE-4036-9C45-283303E4B7EC}	d_labpkg	d_labresult	lab; lab_pkg; anal_type;	lab; lab_pkg; anal_type;
{DC6BC9F5-E2A2-420E-BFE4-582639C23289}	d_studylocation	d_sampcoll	study_id; study_loc_id;	study_id; study_loc_id;
{E7CE789B-A3E6-48C2-9C62-00511398BB3D}	d_studylocation	d_studyloccoord	study_id; study_loc_id;	study_id; study_loc_id;
d_bioaccumbatd_bioaccumtest	d_bioaccumbat	d_bioaccumtest	lab; bioaccum_batch;	lab; bioaccum_batch;
d_bioaccumtestd_bioaccumsamp	d_bioaccumtest	d_bioaccumsamp	lab; bioaccum_batch; study_id; sample_id;	lab; bioaccum_batch; study_id; sample_id;
d_bioasbatd_bioasctl	d_bioasbat	d_bioasctl	lab; bioas_batch;	lab; bioas_batch;
d_criteriadefsd_criteria	d_criteriadefs	d_criteria	critcode;	critcode;
d_documentd_bioaccumbat	d_document	d_bioaccumbat	doc_id;	sop;
d_documentd_sampdoc	d_document	d_sampdoc	doc_id;	doc_id;
d_documentd_sampmeas	d_document	d_sampmeas	doc_id;	principal_doc;
d_documentd_study	d_document	d_study	doc_id;	primary_doc;
d_documentd_study1	d_document	d_study	doc_id;	qa_doc;
d fldqcsampd fldqcsplit	d fldqcsamp	d fldqcsplit	study_id; qcsample_id;	study_id; qcsample_id;
d_labqcbatchd_matrixspike	d_labqcbatch	d_matrixspike	lab; lab_qc_batch;	lab; lab_qc_batch;
d_labqcbatchd_mblksurr	d_labqcbatch	d_mblksurr	lab; lab_qc_batch;	lab; lab_qc_batch;
d_labqcbatchd_methodblank	d_labqcbatch	d_methodblank	lab; lab_qc_batch;	lab; lab_qc_batch;
d_labqcbatchd_surrogate	d_labqcbatch	d_surrogate	lab; lab_qc_batch;	lab; lab_qc_batch;
d_labsampled_methodblank	d_labsample	d_methodblank	lab; labsample;	lab; labsample;
d_sampcoll d_sampmain	d_sampcoll	d_sampmain	study_id; sampcoll_id;	study_id; sampcoll_id;
d_sampcoll d_sampmeas	d_sampcoll	d_sampmeas	study_id; sampcoll_id;	study_id; sampcoll_id;
d_sampmain d_bioaccumtest	d_sampmain	d_bioaccumtest	study_id; sample_id;	study_id; sample_id;
d_sampmain d_histopath	d_sampmain	d_histopath	study_id; sample_id;	study_id; sample_id;
d_sampmain d_sampdoc	d_sampmain	d_sampdoc	study_id; sample_id;	study_id; sample_id;
d_sampmain d_spabund	d_sampmain	d_spabund	study_id; sample_id;	study_id; sample_id;
d_sampmain i_samplistlist	d_sampmain	i_samplistlist	study_id; sample_id;	study_id; sample_id;
d_study d fldqcsamp	d_study	d fldqcsamp	study_id;	study_id;
e_analmethod d_labresult	e_analmethod	d_labresult	method_code;	method_code;
e_analyted_criteria	e_analyte	d_criteria	analyte;	analyte;
e_analyted_labresult	e_analyte	d_labresult	analyte;	analyte;
e_analytei_chemlistlist	e_analyte	i_chemlistlist	analyte;	analyte;
e_areatype d_area	e_areatype	d_area	area_type;	area_type;

e_bioasmeasd_bioasctl	e_bioasmeas	d_bioasctl	bioas_meas;	bioas_meas;
e_bioasmeasd_bioasdat	e_bioasmeas	d_bioasdat	bioas_meas;	bioas_meas;
e_bioasquald_bioasctl	e_bioasqual	d_bioasctl	bioas_qual;	bioas_qual;
e_bioasquald_bioasdat	e_bioasqual	d_bioasdat	bioas_qual;	bioas_qual;
e_bioastyped_bioasbat	e_bioastype	d_bioasbat	bioas_type;	bioas_type;
e_bioasunitd_bioasctl	e_bioasunit	d_bioasctl	bioas_unit;	bioas_unit;
e_bioasunitd_bioasdat	e_bioasunit	d_bioasdat	bioas_unit;	bioas_unit;
e_bioasvard_bioasctl	e_bioasvar	d_bioasctl	bioas_var;	bioas_var;
e_bioasvard_bioasdat	e_bioasvar	d_bioasdat	bioas_var;	bioas_var;
e_chemclasse_analyte	e_chemclass	e_analyte	chem_class;	chem_class;
e_collschemed_sampcoll	e_collscheme	d_sampcoll	coll_scheme;	coll_scheme;
e_composited_sampcoll	e_composite	d_sampcoll	composite_type;	composite_type;
e_coordquald_location	e_coordqual	d_location	coord_qual;	coord_qual;
e_coordquald_studyloccoord	e_coordqual	d_studyloccoord	coord_qual;	coord_qual;
e_dimensione_unit	e_dimension	e_unit	dimension;	dimension;
e_doccatd_document	e_doccat	d_document	doc_cat;	doc_cat;
e_doctyped_document	e_doctype	d_document	doc_type;	doc_type;
e_fieldgeard_sampcoll	e_fieldgear	d_sampcoll	gear;	coll_gear;
e_fieldmeasmethodd_sampmeas	e_fieldmeasmethod	d_sampmeas	field_meas_method;	field_meas_method;
e_fieldprepd_sampmain	e_fieldprep	d_sampmain	field_prep_method;	field_prep_method;
e_keywordd_dockwd	e_keyword	d_dockwd	keyword;	keyword;
e_labd_bioaccumbat	e_lab	d_bioaccumbat	lab;	lab;
e_labd_bioasbat	e_lab	d_bioasbat	lab;	lab;
e_labd_bioasdat	e_lab	d_bioasdat	lab;	lab;
e_labd_labpkg	e_lab	d_labpkg	lab;	lab;
e_labd_labqcsamp	e_lab	d_labqcsamp	lab;	lab;
e_labd_labsample	e_lab	d_labsample	lab;	lab;
e_labextracte_analmethod	e_labextract	e_analmethod	lab_extraction_method;	lab_extraction_method;
e_labmethode_analmethod	e_labmethod	e_analmethod	lab_anal_method;	lab_anal_method;
e_labprepe_analmethod	e_labprep	e_analmethod	lab_prep_method;	lab_prep_method;
e_leachmethode_analmethod	e_leachmethod	e_analmethod	lab_leach_method;	lab_leach_method;
e_lesionsevd_histopath	e_lesionsev	d_histopath	lesion_severity;	lesion_severity;
e_lesiontyped_histopath	e_lesiontype	d_histopath	lesion_type;	lesion_type;
e_lifestaged_spabund	e_lifestage	d_spabund	life_stage;	life_stage;
e_materiald_criteria	e_material	d_criteria	material;	material;
e_materiald_criteriadefts	e_material	d_criteriadefts	material;	material;
e_materiale_sampmaterial	e_material	e_sampmaterial	material;	material;
e_matrixe_sampmaterial	e_matrix	e_sampmaterial	matrix;	matrix;
e_measbasisd_criteria	e_measbasis	d_criteria	meas_basis;	meas_basis;
e_measbasisd_labresult	e_measbasis	d_labresult	meas_basis;	meas_basis;
e_partytyped_party	e_partytype	d_party	party_type;	party_type;
e_qaleveld_bioasbat	e_qalevel	d_bioasbat	qa_level;	qa_level;
e_qaleveld_labpkg	e_qalevel	d_labpkg	qa_level;	qalevel_target;
e_qaleveld_labpkg1	e_qalevel	d_labpkg	qa_level;	qalevel_applied;
e_qaleveld_labresult	e_qalevel	d_labresult	qa_level;	qa_level;
e_qaleveld_sampmeas	e_qalevel	d_sampmeas	qa_level;	qa_level;

e_qaleveld_study	e_qalevel	d_study	qa_level;	qa_level;
e_qctype_dfldqcsamp	e_qctype	d_fldqcsamp	qc_type;	qc_type;
e_qctype_labqcsamp	e_qctype	d_labqcsamp	qc_type;	qc_type;
e_riverbank_location	e_riverbank	d_location	river_bank;	river_bank;
e_sampcharcoded_sampchar	e_sampcharcode	d_sampchar	sampchar_type; sampchar;	sampchar_type; sampchar;
e_sampcharcodetypee_sampcharcode	e_sampcharcodetype	e_sampcharcode	sampchar_type;	sampchar_type;
e_sampmateriald_histopath	e_sampmaterial	d_histopath	sample_material;	organ;
e_sampmateriald_labresult	e_sampmaterial	d_labresult	sample_material;	material_analyzed;
e_sampmateriald_sampcoll	e_sampmaterial	d_sampcoll	sample_material;	sample_material;
e_sampmateriald_sampmain	e_sampmaterial	d_sampmain	sample_material;	sample_material;
e_sampmeascoded_sampmeas	e_sampmeascode	d_sampmeas	samp_measurement;	samp_measurement;
e_samptreatd_sampmain	e_samptreat	d_sampmain	sample_treatment;	sample_treatment;
e_sex_dspabund	e_sex	d_spabund	sex;	sex;
e_spatialrefsysd_location	e_spatialrefsys	d_location	srid;	srid;
e_spatialrefsysd_studyloccoord	e_spatialrefsys	d_studyloccoord	srid;	srid;
e_subsamptyped_sampmain	e_subsamptype	d_sampmain	subsamp_type;	subsamp_type;
e_taxond_bioaccumbat	e_taxon	d_bioaccumbat	taxon_code;	taxon;
e_taxond_bioasbat	e_taxon	d_bioasbat	taxon_code;	taxon;
e_taxond_sampmain	e_taxon	d_sampmain	taxon_code;	taxon;
e_taxond_spabund	e_taxon	d_spabund	taxon_code;	taxon;
e_unitd_criteria	e_unit	d_criteria	unit;	unit;
e_unitd_labresult	e_unit	d_labresult	unit;	units;
e_unitd_sampcoll	e_unit	d_sampcoll	unit;	coll_depth_units;
e_unitd_sampcoll1	e_unit	d_sampcoll	unit;	water_depth_units;
e_unitd_sampmain	e_unit	d_sampmain	unit;	depth_units;
e_unitd_sampmeas	e_unit	d_sampmeas	unit;	units;
e_unitd_spabund	e_unit	d_spabund	unit;	abund_units;
e_workflowd_spatialdata	e_workflow	d_spatialdata	workflow;	dataset_status;
fk_chemlist	i_chemlistdef	i_chemsetlist	analyte_list;	analyte_list;
fk_chemset	i_chemsetdef	i_chemsetlist	analyte_set;	analyte_set;
i_chemlistdefi_chemlistlist	i_chemlistdef	i_chemlistlist	analyte_list;	analyte_list;
i_chemsumdefi_chemsumlist	i_chemsumdef	i_chemsumlist	sum_name;	sum_name;
i_loclistdefi_loclistlist	i_loclistdef	i_loclistlist	location_list;	location_list;
i_samplistdefi_samplistlist	i_samplistdef	i_samplistlist	sample_list;	sample_list;

method_code	description	lab_prep_method	lab_leach_method	lab_extraction_method	lab_anal_method
SM2540D	Total Suspended Solids (TSS) Dried at 103 -105 deg C				SM2540D

lab	lab_pkg	anal_type	labsample	material_analyzed	method_code	date_extracted	date_analyzed	mass_gm	vol_ml
CAS_K	K1106516	Convent	K1106516-001	Water	SM2540D		7/20/2011		
CAS_K	K1106516	Convent	K1106516-002	Water	SM2540D		7/20/2011		
CAS_K	K1106516	Convent	K1106516-003	Water	SM2540D		7/20/2011		
CAS_K	K1106516	Convent	K1106516-004	Water	SM2540D		7/20/2011		
CAS_K	K1106516	Convent	K1106516-MB1	Water	SM2540D		7/20/2011		
CAS_K	K1106516	Convent	K1106516-MB2	Water	SM2540D		7/20/2011		
CAS_K	K1106516	Convent	K1106516-MB3	Water	SM2540D		7/20/2011		
CAS_K	K1106516	Convent	K1106516-MB4	Water	SM2540D		7/20/2011		
CAS_K	K1106516	Convent	K1106516-LCS1	Water	SM2540D		7/20/2011		
CAS_K	K1106516	Convent	K1106516-LCS2	Water	SM2540D		7/20/2011		
CAS_K	K1106516	Convent	K1106516-LCS3	Water	SM2540D		7/20/2011		
CAS_K	K1106516	Convent	K1106516-003DUP	Water	SM2540D		7/20/2011		
CAS_K	K1106516	Convent	K1106516-004DUP	Water	SM2540D		7/20/2011		

lab	lab_cal_batch	instrument_type	instrument_id	initial_cal_date
CAS_K	254185	BALANCE	K-Balance-31	7/20/2011

lab	lab_pkg	anal_type	anal_begun	anal_completed	analyst	comments
CAS_K	K1106516	Convent	7/20/2011	7/20/2011		

lab	lab_qc_batch	prep_date	extraction_date
CAS_K	254185		

lab	labqc_samp	qc_type	comments
CAS_K	K1106516-MB1	MethodBlank	
CAS_K	K1106516-MB2	MethodBlank	
CAS_K	K1106516-MB3	MethodBlank	
CAS_K	K1106516-MB4	MethodBlank	
CAS_K	K1106516-LCS1	LCS	
CAS_K	K1106516-LCS2	LCS	
CAS_K	K1106516-LCS3	LCS	

lab	lab_pkg	anal_type	labsample	material_analyzed	method_code	analyte	meas_basis	lab_rep	meas_value	units	std_dev	detected	detection_limit	quantification_limit	reporting_limit	maximum_limit	lab_flags	comments	lab_qc_batch	lab_cal_batch
CAS_K	K1106516	Convent	K1106516-001	Water	SM2540D	TSS	Unfilt	1	10	mg/L		Y	5	5	5				254185	254185
CAS_K	K1106516	Convent	K1106516-002	Water	SM2540D	TSS	Unfilt	1	8.5	mg/L		Y	5	5	5				254185	254185
CAS_K	K1106516	Convent	K1106516-003	Water	SM2540D	TSS	Unfilt	1	7	mg/L		Y	5	5	5				254185	254185
CAS_K	K1106516	Convent	K1106516-004	Water	SM2540D	TSS	Unfilt	1	9.5	mg/L		Y	5	5	5				254185	254185
CAS_K	K1106516	Convent	K1106516-003DUP	Water	SM2540D	TSS	Unfilt	2	10.5	mg/L		Y	5	5	5		*		254185	254185
CAS_K	K1106516	Convent	K1106516-004DUP	Water	SM2540D	TSS	Unfilt	2	11.5	mg/L		Y	5	5	5		*		254185	254185

lab	labsample	study_id	sample_no	labqc_samp	receipt_date	coc_id
CAS_K	K1106516-001	090557-01.02	SJUSL001-AS037-N	NA	7/19/2011	
CAS_K	K1106516-002	090557-01.02	SJUSL001-AS038-N	NA	7/19/2011	
CAS_K	K1106516-003	090557-01.02	SJUSL001-AS039-N	NA	7/19/2011	
CAS_K	K1106516-004	090557-01.02	SJUSL001-AS040-D	NA	7/19/2011	
CAS_K	K1106516-MB1			K1106516-MB1	NA	NA
CAS_K	K1106516-MB2			K1106516-MB2	NA	NA
CAS_K	K1106516-MB3			K1106516-MB3	NA	NA
CAS_K	K1106516-MB4			K1106516-MB4	NA	NA
CAS_K	K1106516-LCS1			K1106516-LCS1	NA	NA
CAS_K	K1106516-LCS2			K1106516-LCS2	NA	NA
CAS_K	K1106516-LCS3			K1106516-LCS3	NA	NA
CAS_K	K1106516-003DUP	090557-01.02	SJUSL001-AS039-N	NA	7/19/2011	
CAS_K	K1106516-004DUP	090557-01.02	SJUSL001-AS040-D	NA	7/19/2011	

lab	lab_qc_batch	lcs_id	analyte	meas_basis	lcs_type	true_lcs_conc	meas_lcs_conc	lcs_lowlimit	lcs_highlimit	units	conc_qual
CAS_K	254185	K1106516-LCS1	TSS	Unfilt	L	240	244	80	115	mg/L	
CAS_K	254185	K1106516-LCS2	TSS	Unfilt	L	240	230	80	115	mg/L	
CAS_K	254185	K1106516-LCS3	TSS	Unfilt	L	240	234	80	115	mg/L	

lab lab_qc_batch labsample method_code analyte meas_basis spike_no samp_conc initial_qual spike_added spiked_conc final_qual lab_flags units

lab	lab_qc_batch	labsample	method_code	analyte	lab_rep	concentration	retention_time	units	lab_flags
CAS_K	254185	K1106516-MB1	SM2540D	TSS	1	5		mg/L	U
CAS_K	254185	K1106516-MB2	SM2540D	TSS	1	5		mg/L	U
CAS_K	254185	K1106516-MB3	SM2540D	TSS	1	5		mg/L	U
CAS_K	254185	K1106516-MB4	SM2540D	TSS	1	5		mg/L	U

lab lab_qc_batch labsample method_code surrogate meas_basis column_no lab_rep recovery out_flag

July 27, 2011

Analytical Report for Service Request No: K1106669

Craig Hutchings
Integral Consulting, Incorporated
1205 West Bay Drive NW
Olympia, WA 98502-4670

RE: San Jacinto River Upstream Sediment Load Study/090557-01.02

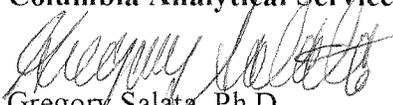
Dear Craig:

Enclosed are the results of the samples submitted to our laboratory on July 22, 2011. For your reference, these analyses have been assigned our service request number K1106669.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3376. You may also contact me via Email at GSalata@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.
Gregory Salata, Ph.D.
Project Chemist

GS/lg

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Agency	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DEQ	WA100010
South Carolina DHEC	61002
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-



Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Integral Consulting, Incorporated
Project: San Jacinto River Upstream Sediment
Load Study/090557-01.02
Sample Matrix: Water

Service Request No.: K1106669
Date Received: 07/22/11

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Four water samples were received for analysis at Columbia Analytical Services on 07/22/11. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Total Suspended Solids by Standard Method 2540 D:

The Relative Percent Difference (RPD) criterion for the replicate analysis of Total Suspended Solids in sample SJUSL001-AS041-N was not applicable because the analyte concentration was not significantly greater than the Method Reporting Limit (MRL). Analytical values derived from measurements close to the detection limit are not subject to the same accuracy and precision criteria as results derived from measurements higher on the calibration range for the method.

No other anomalies associated with the analysis of these samples were observed.

Approved by



Date

7/29/11

Chain of Custody

**Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form**

PC Shig

Client / Project: Anchor Service Request K11 66669

Received: 7/22/11 Opened: 7/22/11 By: BT Unloaded: 7/22/11 By: BT

1. Samples were received via? Mail Fed Ex UPS DHL PDX Courier Hand Delivered
2. Samples were received in: (circle) Cooler Box Envelope Other _____ NA
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 front
- If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
-0.3		290	<u>NA</u>			X

7. Packing material used. Inserts Baggies Bubble Wrap Gel Packs Wet Ice Sleeves Other _____
8. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
9. Did all bottles arrive in good condition (unbroken)? Indicate in the table below. NA Y N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
11. Did all sample labels and tags agree with custody papers? Indicate major discrepancies in the table on page 2. NA Y N
12. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
13. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
14. Were VOA vials received without headspace? Indicate in the table below. NA Y N
15. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

General Chemistry Parameters

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Integral Consulting, Incorporated
Project: San Jacinto River Upstream Sediment Load Study/090557-01.02
Sample Matrix: Water

Service Request: K1106669
Date Collected: 7/18/11 - 7/20/11
Date Received: 7/22/11

Analysis Method: SM 2540 D

Units: mg/L
Basis: NA

Solids, Total Suspended (TSS)

Sample Name	Lab Code	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
SJUSL001-AS041-N	K1106669-001	6.5	5.0	5.0	1	NA	7/22/11 09:00	
SJUSL001-AS042-N	K1106669-002	16.0	5.0	5.0	1	NA	7/22/11 09:00	
SJUSL001-AS043-N	K1106669-003	14.5	5.0	5.0	1	NA	7/22/11 09:00	
SJUSL001-AS043-D	K1106669-004	18.0	5.0	5.0	1	NA	7/22/11 09:00	
Method Blank	K1106669-MB1	ND U	5.0	5.0	1	NA	7/22/11 09:00	
Method Blank	K1106669-MB2	ND U	5.0	5.0	1	NA	7/22/11 09:00	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Integral Consulting, Incorporated
Project: San Jacinto River Upstream Sediment Load Study/090557-01.02
Sample Matrix: Water

Service Request: K1106669
Date Collected: 7/18/11
Date Received: 7/22/11
Date Analyzed: 7/22/11

**Replicate Sample Summary
 General Chemistry Parameters**

Sample Name: SJUSL001-AS041-N
Lab Code: K1106669-001

Units: mg/L
Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	SJUSL001-AS041-N DUP		RPD	RPD Limit
					Duplicate Sample Result	Average		
Solids, Total Suspended (TSS)	SM 2540 D	5.0	5.0	6.5	10.0	8.25	42 *	10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Integral Consulting, Incorporated
Project: San Jacinto River Upstream Sediment Load Study/090557-01.02
Sample Matrix: Water

Service Request: K1106669
Date Analyzed: 7/22/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample
K1106669-LCS1

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Solids, Total Suspended (TSS)	SM 2540 D	240	240	100	80 - 115

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Integral Consulting, Incorporated
Project: San Jacinto River Upstream Sediment Load Study/090557-01.02
Sample Matrix: Water

Service Request: K1106669
Date Analyzed: 7/22/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample K1106669-LCS2			% Rec Limits
		Result	Spike Amount	% Rec	
Solids, Total Suspended (TSS)	SM 2540 D	242	240	101	80 - 115

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Analytical Results Summary

Instrument Name: K-Balance-31

Analyst: JMASCHMANN

Analysis Lot: 254500

Method/Testcode: SM 2540 D/TSS

<u>Lab Code</u>	<u>Target Analytes</u>	<u>QC</u>	<u>Parent Sample</u>	<u>Matrix</u>	<u>Raw Result</u>	<u>Sample Amt.</u>	<u>Final Result</u>	<u>Dil</u>	<u>MDL</u>	<u>PQL</u>	<u>% Rec</u>	<u>% RSD</u>	<u>Date Analyzed</u>	<u>QC?</u>	<u>Tier</u>
106600-003	Solids, Total Suspended (TSS)	N/A		Water	22.00 mg/L	200 ml	22.0 mg/L	1	5.0	5.0			7/22/11 09:00	N	V
106614-001	Solids, Total Suspended (TSS)	N/A		Water	224.00 mg/L	100 ml	224 mg/L	1	10	10			7/22/11 09:00	N	V
106614-005	Solids, Total Suspended (TSS)	N/A		Water	271.00 mg/L	100 ml	271 mg/L	1	10	10			7/22/11 09:00	N	V
106614-011	Solids, Total Suspended (TSS)	N/A		Water	143.00 mg/L	200 ml	143 mg/L	1	5.0	5.0			7/22/11 09:00	N	V
106614-013	Solids, Total Suspended (TSS)	N/A		Water	88.50 mg/L	200 ml	88.5 mg/L	1	5.0	5.0			7/22/11 09:00	N	V
106615-001	Solids, Total Suspended (TSS)	N/A		Water	500.00 mg/L	20 ml	500 mg/L	1	50	50			7/22/11 09:00	N	I
106619-001	Solids, Total Suspended (TSS)	N/A		Water	33.00 mg/L	200 ml	33.0 mg/L	1	5.0	5.0			7/22/11 09:00	N	V
106619-002	Solids, Total Suspended (TSS)	N/A		Water	1.50 mg/L	200 ml	5.0 mg/L U	1	5.0	5.0			7/22/11 09:00	N	V
106619-003	Solids, Total Suspended (TSS)	N/A		Water	3.50 mg/L	200 ml	5.0 mg/L U	1	5.0	5.0			7/22/11 09:00	N	V
106619-004	Solids, Total Suspended (TSS)	N/A		Water	86.00 mg/L	100 ml	86 mg/L	1	10	10			7/22/11 09:00	N	V
106619-005	Solids, Total Suspended (TSS)	N/A		Water	0.50 mg/L	200 ml	5.0 mg/L U	1	5.0	5.0			7/22/11 09:00	N	V
106619-006	Solids, Total Suspended (TSS)	N/A		Water	1.00 mg/L	200 ml	5.0 mg/L U	1	5.0	5.0			7/22/11 09:00	N	V
106649-001	Solids, Total Suspended (TSS)	N/A		Water	1020.00 mg/L	5 ml	1020 mg/L	1	200	200			7/22/11 09:00	N	I
106651-004	Solids, Total Suspended (TSS)	N/A		Water	8.50 mg/L	200 ml	8.5 mg/L	1	5.0	5.0			7/22/11 09:00	N	IV
106651-005	Solids, Total Suspended (TSS)	N/A		Water	19.00 mg/L	200 ml	19.0 mg/L	1	5.0	5.0			7/22/11 09:00	N	IV
106664-001	Solids, Total Suspended (TSS)	N/A		Water	12.50 mg/L	200 ml	12.5 mg/L	1	5.0	5.0			7/22/11 09:00	N	II
106664-002	Solids, Total Suspended (TSS)	N/A		Water	6.50 mg/L	200 ml	6.5 mg/L	1	5.0	5.0			7/22/11 09:00	N	II
106664-005	Solids, Total Suspended (TSS)	N/A		Water	10.50 mg/L	200 ml	10.5 mg/L	1	5.0	5.0			7/22/11 09:00	N	II
106664-006	Solids, Total Suspended (TSS)	N/A		Water	11.50 mg/L	200 ml	11.5 mg/L	1	5.0	5.0			7/22/11 09:00	N	II
106664-007	Solids, Total Suspended (TSS)	N/A		Water	5.00 mg/L	200 ml	5.0 mg/L	1	5.0	5.0			7/22/11 09:00	N	II
106666-001	Solids, Total Suspended (TSS)	N/A		Water	3736.00 mg/L	50 ml	3740 mg/L	1		20			7/22/11 09:00	N	II
106666-002	Solids, Total Suspended (TSS)	N/A		Water	0.40 mg/L	250 ml	4.0 mg/L U	1		4.0			7/22/11 09:00	N	II
106669-001	Solids, Total Suspended (TSS)	N/A		Water	6.50 mg/L	200 ml	6.5 mg/L	1	5.0	5.0			7/22/11 09:00	N	V
106669-002	Solids, Total Suspended (TSS)	N/A		Water	16.00 mg/L	200 ml	16.0 mg/L	1	5.0	5.0			7/22/11 09:00	N	V

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-Balance-31

Analyst: JMASCHMANN

Analysis Lot: 254500

Method/Testcode: SM 2540 D/TSS

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1106669-003	Solids, Total Suspended (TSS)	N/A		Water	14.50 mg/L	200 ml	14.5 mg/L	1	5.0	5.0			7/22/11 09:00	N	V
1106669-004	Solids, Total Suspended (TSS)	N/A		Water	18.00 mg/L	200 ml	18.0 mg/L	1	5.0	5.0			7/22/11 09:00	N	V
Q1107386-01	Solids, Total Suspended (TSS)	MB		Water	0.80 mg/L	250 ml	5.0 mg/L U	1	5.0	5.0			7/22/11 09:00	N	II
Q1107386-02	Solids, Total Suspended (TSS)	MB		Water	0.00 mg/L	250 ml	5.0 mg/L U	1	5.0	5.0			7/22/11 09:00	N	II
Q1107386-03	Solids, Total Suspended (TSS)	LCS		Water	240.00 mg/L	50 ml	240 mg/L	1	20	20	100		7/22/11 09:00	N	II
Q1107386-04	Solids, Total Suspended (TSS)	DUP	K1106651-004	Water	13.50 mg/L	200 ml	13.5 mg/L	1	5.0	5.0		①45*	7/22/11 09:00	N	IV
Q1107386-05	Solids, Total Suspended (TSS)	DUP	K1106600-003	Water	23.00 mg/L	200 ml	23.0 mg/L	1	5.0	5.0		4	7/22/11 09:00	N	V
Q1107386-06	Solids, Total Suspended (TSS)	MB		Water	0.00 mg/L	250 ml	4.0 mg/L U	1		4.0			7/22/11 09:00	N	II
Q1107386-07	Solids, Total Suspended (TSS)	LCS		Water	228.00 mg/L	50 ml	228 mg/L	1		20	95		7/22/11 09:00	N	II
Q1107386-08	Solids, Total Suspended (TSS)	DUP	K1106666-002	Water	0.00 mg/L	250 ml	4.0 mg/L U	1		4.0		NC	7/22/11 09:00	N	II
Q1107386-09	Solids, Total Suspended (TSS)	MB		Water	1.20 mg/L	250 ml	5.0 mg/L U	1	5.0	5.0			7/22/11 09:00	N	V
Q1107386-10	Solids, Total Suspended (TSS)	LCS		Water	242.00 mg/L	50 ml	242 mg/L	1	20	20	101		7/22/11 09:00	N	V
Q1107386-11	Solids, Total Suspended (TSS)	DUP	K1106669-001	Water	10.00 mg/L	200 ml	10.0 mg/L	1	5.0	5.0		②42*	7/22/11 09:00	N	V

① RPD is 45% < 5 times MRL

② RPD is 42% < 5 times MRL.

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order #: K10604, K10614, K10619, K10651, K10600, K10605 Method: EPA SM 2540 D

Analysis: Total Suspended Solids

K10649, K10666, K10669,

Sample #	Pan Number	Comments	Sample Volume (ml)	Wt. Filter + Dry sample (1) (g)	Wt. Filter + Dry sample (2) (g)	Wt. Filter + Dry sample (3) (g)	Wt. Filter (g)	Wt. Dry Sample (g)	TSS (mg/L)	TSS (mg/L) reported
MB	1		250	0.0735	0.0734		0.0733	0.0002	0.80	<4.0
MB	2		250	0.0734	0.0735		0.0734	0.0000	0.00	<4.0
LCS	3		50	0.0862	0.0861		0.0742	0.0120	240	240
K1106664-001	4		200	0.0763	0.0764		0.0738	0.0025	12.5	12.5
K1106664-002	5		200	0.0761	0.0762		0.0748	0.0013	6.50	6.50
K1106664-005	6		200	0.0738	0.0739		0.0717	0.0021	10.5	10.5
K1106664-006	7		200	0.0749	0.0750		0.0726	0.0023	11.5	11.5
K1106664-007	8		200	0.0735	0.0736		0.0725	0.0010	5.00	5.00
K1106614-001	9		100	0.0954	0.0955		0.0730	0.0224	224	224
K1106614-005	10		100	0.0993	0.0994		0.0722	0.0271	271	271
K1106614-011	11		200	0.1027	0.1029		0.0741	0.0286	143	143
K1106614-013	12		200	0.0919	0.0918		0.0742	0.0177	88.5	88.5
K1106619-001	13		200	0.0793	0.0794		0.0727	0.0066	33.0	33.0
K1106619-002	14		200	0.0738	0.0739		0.0735	0.0003	1.50	<5.0
K1106619-003	15		200	0.0741	0.0741		0.0734	0.0007	3.50	<5.0
K1106619-004	16		100	0.0819	0.0819		0.0733	0.0086	86.0	86.0
K1106619-005	17		200	0.0741	0.0740		0.0740	0.0001	0.50	<5.0
K1106619-006	18		200	0.0760	0.0759		0.0758	0.0002	1.00	<5.0
K1106651-004	19		200	0.0761	0.0761		0.0744	0.0017	8.50	8.50
K1106651-005	20		200	0.0780	0.0780		0.0742	0.0038	19.0	19.0
K1106600-003	21		200	0.0790	0.0791		0.0746	0.0044	22.0	22.0
K1106615-001	22		20	0.0850	0.0851		0.0750	0.0100	500	500
K1106649-001	23		5	0.0814	0.0815		0.0763	0.0051	1020	1020
K1106651-004D	24		200	0.0788	0.0789		0.0761	0.0027	13.5	13.5
K1106600-003D	25		200	0.0777	0.0778		0.0731	0.0046	23.0	23.0

Calculation: Suspended Solids (mg/L) = Wt. Dry Sample (g) x 1000 x 1000 / Volume (ml) Balance#31

APG #:4033 Lot# 220311 ID# TDS/1-32 W T.V. = 240 % Rec = 100/95/101

Wt (1) Start	12:05	Wt (2) Start	06:30	Wt (3) Start	
Stop	6:00	Stop	07:30	Stop	
Wt (1) Start	105	Wt (2) Start	105	Wt (3) Start	
Temp Stop	105	Temp Stop	105	Temp Stop	

CCV Verification SN: 6549

Tare	1.0000 g	≤(+/-0.1%)	1 weigh	1.0000 g	≤(+/-0.1%)	2 weigh	1.0000 g	≤(+/-0.1%)
CCV1	1.0000	100.00%	CCV3	0.9999	99.99%	CCV5	1.0000	100.00%
CCV2	0.9999	99.99%	CCV4	0.9997	99.97%	CCV6	0.9999	99.99%

Analyzed By: JM	Date Analyzed: 7/22/2011 9:00
Reviewed By: <u>[Signature]</u>	Date Reviewed: <u>7/25/11</u>

K10651-4/4d 2/11 RPD=45 < 5 times MRL.

K10600-3/3d x=22.5 RPD=4

K10666-2/2d x=ND RPD=- 1 2

K10619-1/1d x=9.25 RPD=42 Page 8 of 8 times MRL.

Work Order #: K110649, K110614, K110619, K110651, K110600, K110615

Method: EPA SM 2540 D

Analysis: Total Suspended Solids

K110649, K110614, K110619

Sample #	Pan Number	Comments	Sample Volume (ml)	Wt. Filter + Dry sample (1) (g)	Wt. Filter + Dry sample (2) (g)	Wt. Filter + Dry sample (3) (g)	Wt. Filter (g)	Wt. Dry Sample (g)	TSS (mg/L)	TSS (mg/L) reported
MB	26		250	0.0743	0.0744		0.0743	0.0000	0.00	<4.0
LCS	27		50	0.0873	0.0874		0.0759	0.0114	228	228
K1106666-001	28		50	0.2602	0.2602		0.0734	0.1868	3736	3740
K1106666-002	29		250	0.0749	0.0750		0.0748	0.0001	0.40	<5.0
K1106666-002D	30		250	0.0748	0.0749		0.0748	0.0000	0.00	<5.0
MB	31		250	0.0757	0.0758		0.0754	0.0003	1.20	<5.0
LCS	32		50	0.0860	0.0859		0.0739	0.0121	242	242.0
K1106669-001	33		200	0.0762	0.0763		0.0749	0.0013	6.50	6.50
K1106669-002	34		200	0.0777	0.0778		0.0745	0.0032	16.0	16.0
K1106669-003	35		200	0.0770	0.0771		0.0741	0.0029	14.5	14.5
K1106669-004	36		200	0.0800	0.0801		0.0764	0.0036	18.0	18.0
K1106669-001D	37		200	0.0753	0.0754		0.0733	0.0020	10.0	10.0

Calculation: Suspended Solids (mg/L) = Wt. Dry Sample (g) x 1000 x 1000 / Volume (ml)

CCV Verification SN: 6549

Tare	1.0000 g	≤(+/- 0.1%)	1 st weigh	1.0000 g	≤(+/- 0.1%)	2 nd weigh	1.0000 g	≤(+/- 0.1%)
CCV1		0.00%	CCV3		0.00%	CCV5		0.00%
CCV2		0.00%	CCV4		0.00%	CCV6		0.00%

Analyzed By: JM	Date Analyzed: 7/22/2011 9:00
Reviewed By:	Date Reviewed:

file_id	pub_year	authors	file	publisher	pub_date	pub_loc	doc_type	url	abstract	first_page	last_page	total_pages	sent_from	sent_to	copyrighted	isbn	issn	filename	file_loc	bates_prefix	bates_start	bates_end	int_10_10	other_10_10	doc_cat	journal_issue	doc_version	hard_copy	complete_copy	integral_product	comments	short_citation	date_added
K1106669	2011	CAS Kelso	ESD files for SR K1106669 for study UpstremSedLoad	CAS Kelso			E-file								FALSE			FieldSamplingInfoTemplate_USL_110629.xls	L:\CD43_SanJacinto_PCCD\4\2011\UpstreamSedimentLoad\FeldRgs								FALSE	TRUE	FALSE				
UpstremSedLoad_F1	2011	Anchor/G&A	2011 Upstream Sediment Load Study locations and samples	Anchor/G&A			E-file								FALSE			FieldSamplingInfoTemplate_USL_110629.xls	L:\CD43_SanJacinto_PCCD\4\2011\UpstreamSedimentLoad\FeldRgs								FALSE	TRUE	FALSE				
UpstremSedLoad_FSP	2011	Anchor/G&A and Integral Consulting	Draft Current Velocity Study Field Sampling Plan San Jacinto River Waste Pits Superfund Site				E-file								FALSE			Draft Upstream Sediment Load Study FSP 03 02 2011.pdf	L:\CD43_SanJacinto_PCCD\Working_Files\Fate and Transport Model\FSP\Upstream Load FSP\Draft								FALSE	TRUE	TRUE				

lab	lab_cal_batch	instrument_type	instrument_id	initial_cal_date
CAS_K	254500	BALANCE	K-Balance-31	

lab	lab_pkg	anal_type	anal_begun	anal_completed	analyst	edd_format	edd_filename	qalevel_target	qalevel_applied	data_quality	validated_by	validation_done	pkg_alias	defining_doc	comments
CAS_K	K1106669	Convent				IDB	K1106669.zip	Validated						1 K1106669	

lab	lab_qc_batch	prep_date	extraction_date
CAS_K	254500		

lab	labqc_samp	qc_type	comments
CAS_K	K1106669-LCS1	LCS	
CAS_K	K1106669-LCS2	LCS	
CAS_K	K1106669-MB1	MethodBlank	
CAS_K	K1106669-MB2	MethodBlank	

lab	lab_pkgs	anal_type	labsample	material_analyzed	method_code	analyte	meas_basis	lab_rep	meas_value	units	sig_figs	std_dev	detection_limit	reporting_limit	quantification_limit	maximum_limit	lab_conc_qual	lab_flags	qa_level	data_quality	undetected	estimated	rejected	greater_than	tic	reportable	original_lab_result	lab_gc_batch	lab_cal_batch	date_analyzed	validator_flags	principal_doc	comments	workflow	workflow_state	analresult_alias
CAS_K	K1106669	Convent	K1106669-001	Surfwater	SM25400	TSS	Unfit	1	6.5	mg/L	3		5	5	5			NoQA		FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	6.5	254500	254500			K1106669		LabEDO	JustLoaded	1	
CAS_K	K1106669	Convent	K1106669-001DUP	Surfwater	SM25400	TSS	Unfit	2	10	mg/L	3		5	5	5			NoQA		FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	10	254500	254500			K1106669		LabEDO	JustLoaded	5	
CAS_K	K1106669	Convent	K1106669-002	Surfwater	SM25400	TSS	Unfit	1	16	mg/L	3		5	5	5			NoQA		FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	16	254500	254500			K1106669		LabEDO	JustLoaded	2	
CAS_K	K1106669	Convent	K1106669-003	Surfwater	SM25400	TSS	Unfit	1	14.5	mg/L	3		5	5	5			NoQA		FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	14.5	254500	254500			K1106669		LabEDO	JustLoaded	3	
CAS_K	K1106669	Convent	K1106669-004	Surfwater	SM25400	TSS	Unfit	1	18	mg/L	3		5	5	5			NoQA		FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	18	254500	254500			K1106669		LabEDO	JustLoaded	4	

lab	lab_qc_batch	lcs_id	analyte	meas_basis	lab_rep	lcs_type	true_lcs_conc	meas_lcs_conc	lcs_lowlimit	lcs_highlimit	units	conc_qual
CAS_K	254500	K1106669-LCS1	TSS	Unfilt	1	L	240	240	80	115	mg/L	
CAS_K	254500	K1106669-LCS2	TSS	Unfilt	1	L	240	242	80	115	mg/L	

location_id	description	loc_type	defining_doc	loc_geom	elevation	elev_unit	huc	river_mile	river_bank	x_coord	y_coord	coord_sys	srid	coord_qual	comments
SJUSL001			UpstrmSedLoad_FI							3211683.366	13858959.19	NAD83, TX South Central	2278		

lab	lab_qc_batch	labsample	method_code	analyte	lab_rep	concentration	retention_time	units	lab_flags
CAS_K	254500	K1106669-MB1	SM2540D	TSS	1	5		mg/L	U
CAS_K	254500	K1106669-MB2	SM2540D	TSS	1	5		mg/L	U

study_id	sample_id	study_loc_id	sample_date	sample_material	study_element	composite_type	composite_period	composite_period_units	composite_count	samp_loc_points	sampcoil_alias	fdgr_group	srn_id	coll_gear	coll_sop	coll_scheme	taxon_code	coll_upper_depth	coll_lower_depth	coll_depth_units	coll_success	fldgr_depth	water_depth	water_depth_units	flood_stage	water_gauge	water_gauge_units	weather	tide_stage	tide_height	tide_height_units	sampler	comments
UpstrmSealLead	SUSL001-A0001-N	SUSL001		Surfwater		Single					75			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0002-N	SUSL001		Surfwater		Single					76			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0003-N	SUSL001		Surfwater		Single					77			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0004-N	SUSL001		Surfwater		Single					78			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0005-N	SUSL001		Surfwater		Single					79			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0006-N	SUSL001		Surfwater		Single					80			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0007-N	SUSL001		Surfwater		Single					81			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0008-N	SUSL001		Surfwater		Single					82			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0009-N	SUSL001		Surfwater		Single					83			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0010-N	SUSL001		Surfwater		Single					85			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0011-N	SUSL001		Surfwater		Single					86			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0012-N	SUSL001		Surfwater		Single					87			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0013-N	SUSL001		Surfwater		Single					88			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0014-N	SUSL001		Surfwater		Single					89			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0015-N	SUSL001		Surfwater		Single					90			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0016-N	SUSL001		Surfwater		Single					91			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0017-N	SUSL001		Surfwater		Single					92			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0018-N	SUSL001		Surfwater		Single					93			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0019-N	SUSL001		Surfwater		Single					94			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0020-N	SUSL001		Surfwater		Single					95			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0021-N	SUSL001		Surfwater		Single					96			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0022-N	SUSL001		Surfwater		Single					97			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0023-N	SUSL001		Surfwater		Single					98			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0024-N	SUSL001		Surfwater		Single					99			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0025-N	SUSL001		Surfwater		Single					100			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0026-N	SUSL001		Surfwater		Single					101			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0027-N	SUSL001		Surfwater		Single					102			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0028-N	SUSL001		Surfwater		Single					103			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0029-N	SUSL001		Surfwater		Single					104			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0030-N	SUSL001		Surfwater		Single					105			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0031-N	SUSL001		Surfwater		Single					106			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0032-N	SUSL001		Surfwater		Single					107			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0033-N	SUSL001		Surfwater		Single					108			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0034-N	SUSL001		Surfwater		Single					109			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0035-N	SUSL001		Surfwater		Single					110			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0036-N	SUSL001		Surfwater		Single					111			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0037-N	SUSL001		Surfwater		Single					112			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0038-N	SUSL001		Surfwater		Single					113			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0039-N	SUSL001		Surfwater		Single					114			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0040-N	SUSL001		Surfwater		Single					119			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0041-N	SUSL001		Surfwater		Single					115			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0042-N	SUSL001		Surfwater		Single					116			ISCO6712FR																			
UpstrmSealLead	SUSL001-A0043-N	SUSL001		Surfwater		Single					117			ISCO6712FR																			
UpstrmSealLead	SUSL001-EW001-N	SUSL001		Surfwater	Composite				5 SRID=2278,MULTIPOINT(x,y,z)2)		74			ISCO6712FR																			

USGS_EH1

study_id	sampcoll_id	sample_id	subsamp_type	sample_material	description	sample_treatment	original_id	sample_alias	defining_doc	fieldqc_batch	upper_depth	lower_depth	depth_units	taxon	field_prep_method
UpstrmSedLoad	SJUSL001-AS001-N	SJUSL001-AS001-N	Entire	Surfwater				117	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS002-N	SJUSL001-AS002-N	Entire	Surfwater				118	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS003-N	SJUSL001-AS003-N	Entire	Surfwater				119	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS004-N	SJUSL001-AS004-N	Entire	Surfwater				120	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS005-N	SJUSL001-AS005-N	Entire	Surfwater				121	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS006-N	SJUSL001-AS006-N	Entire	Surfwater				122	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS007-N	SJUSL001-AS007-N	Entire	Surfwater				123	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS008-N	SJUSL001-AS008-N	Entire	Surfwater				124	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS009-N	SJUSL001-AS009-N	Entire	Surfwater				125	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS010-N	SJUSL001-AS010-N	Entire	Surfwater				127	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS011-N	SJUSL001-AS011-N	Entire	Surfwater				128	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS012-N	SJUSL001-AS012-N	Entire	Surfwater				129	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS013-N	SJUSL001-AS013-N	Entire	Surfwater				130	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS014-N	SJUSL001-AS014-N	Entire	Surfwater				131	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS015-N	SJUSL001-AS015-N	Entire	Surfwater				132	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS016-N	SJUSL001-AS016-N	Entire	Surfwater				133	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS017-N	SJUSL001-AS017-N	Entire	Surfwater				134	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS018-N	SJUSL001-AS018-N	Entire	Surfwater				135	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS019-N	SJUSL001-AS019-N	Entire	Surfwater				136	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS020-N	SJUSL001-AS020-N	Entire	Surfwater				137	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS021-N	SJUSL001-AS021-N	Entire	Surfwater				138	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS022-N	SJUSL001-AS022-N	Entire	Surfwater				139	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS023-N	SJUSL001-AS023-N	Entire	Surfwater				140	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS024-N	SJUSL001-AS024-N	Entire	Surfwater				141	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS025-N	SJUSL001-AS025-N	Entire	Surfwater				142	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS026-N	SJUSL001-AS026-N	Entire	Surfwater				143	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS027-N	SJUSL001-AS027-N	Entire	Surfwater				144	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS028-N	SJUSL001-AS028-N	Entire	Surfwater				145	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS029-N	SJUSL001-AS029-N	Entire	Surfwater				146	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS030-N	SJUSL001-AS030-N	Entire	Surfwater				147	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS031-N	SJUSL001-AS031-N	Entire	Surfwater				148	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS032-N	SJUSL001-AS032-N	Entire	Surfwater				149	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS033-N	SJUSL001-AS033-N	Entire	Surfwater				150	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS034-N	SJUSL001-AS034-N	Entire	Surfwater				151	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS035-N	SJUSL001-AS035-N	Entire	Surfwater				152	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS036-N	SJUSL001-AS036-N	Entire	Surfwater				153	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS037-N	SJUSL001-AS037-N	Entire	Surfwater				154	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS038-N	SJUSL001-AS038-N	Entire	Surfwater				155	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS039-N	SJUSL001-AS039-N	Entire	Surfwater				156	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS040-N	SJUSL001-AS040-N	Entire	Surfwater				160	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS041-N	SJUSL001-AS041-N	Entire	Surfwater				157	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS042-N	SJUSL001-AS042-N	Entire	Surfwater				158	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-AS043-N	SJUSL001-AS043-N	Entire	Surfwater				159	UpstrmSedLoad_FI						
UpstrmSedLoad	SJUSL001-EW1001-N	SJUSL001-EW1001-N	Entire	Surfwater				116	UpstrmSedLoad_FI						

study_id	sample_no	sample_id	bottle_count	comments
UpstrmSedLoad	SJUSL001-AS001-N	SJUSL001-AS001-N	0	
UpstrmSedLoad	SJUSL001-AS002-N	SJUSL001-AS002-N	0	
UpstrmSedLoad	SJUSL001-AS003-N	SJUSL001-AS003-N	0	
UpstrmSedLoad	SJUSL001-AS004-N	SJUSL001-AS004-N	0	
UpstrmSedLoad	SJUSL001-AS005-N	SJUSL001-AS005-N	0	
UpstrmSedLoad	SJUSL001-AS006-N	SJUSL001-AS006-N	0	
UpstrmSedLoad	SJUSL001-AS007-N	SJUSL001-AS007-N	0	
UpstrmSedLoad	SJUSL001-AS008-N	SJUSL001-AS008-N	0	
UpstrmSedLoad	SJUSL001-AS009-D	SJUSL001-AS009-N	0	
UpstrmSedLoad	SJUSL001-AS009-N	SJUSL001-AS009-N	0	
UpstrmSedLoad	SJUSL001-AS010-N	SJUSL001-AS010-N	0	
UpstrmSedLoad	SJUSL001-AS011-N	SJUSL001-AS011-N	0	
UpstrmSedLoad	SJUSL001-AS012-N	SJUSL001-AS012-N	0	
UpstrmSedLoad	SJUSL001-AS013-N	SJUSL001-AS013-N	0	
UpstrmSedLoad	SJUSL001-AS014-N	SJUSL001-AS014-N	0	
UpstrmSedLoad	SJUSL001-AS015-N	SJUSL001-AS015-N	0	
UpstrmSedLoad	SJUSL001-AS016-N	SJUSL001-AS016-N	0	
UpstrmSedLoad	SJUSL001-AS017-N	SJUSL001-AS017-N	0	
UpstrmSedLoad	SJUSL001-AS018-N	SJUSL001-AS018-N	0	
UpstrmSedLoad	SJUSL001-AS019-N	SJUSL001-AS019-N	0	
UpstrmSedLoad	SJUSL001-AS020-N	SJUSL001-AS020-N	0	
UpstrmSedLoad	SJUSL001-AS021-N	SJUSL001-AS021-N	0	
UpstrmSedLoad	SJUSL001-AS022-N	SJUSL001-AS022-N	0	
UpstrmSedLoad	SJUSL001-AS023-N	SJUSL001-AS023-N	0	
UpstrmSedLoad	SJUSL001-AS024-N	SJUSL001-AS024-N	0	
UpstrmSedLoad	SJUSL001-AS025-N	SJUSL001-AS025-N	0	
UpstrmSedLoad	SJUSL001-AS026-N	SJUSL001-AS026-N	0	
UpstrmSedLoad	SJUSL001-AS027-N	SJUSL001-AS027-N	0	
UpstrmSedLoad	SJUSL001-AS028-N	SJUSL001-AS028-N	0	
UpstrmSedLoad	SJUSL001-AS029-N	SJUSL001-AS029-N	0	
UpstrmSedLoad	SJUSL001-AS030-N	SJUSL001-AS030-N	0	
UpstrmSedLoad	SJUSL001-AS031-N	SJUSL001-AS031-N	0	
UpstrmSedLoad	SJUSL001-AS032-N	SJUSL001-AS032-N	0	
UpstrmSedLoad	SJUSL001-AS033-N	SJUSL001-AS033-N	0	
UpstrmSedLoad	SJUSL001-AS034-D	SJUSL001-AS034-N	0	
UpstrmSedLoad	SJUSL001-AS034-N	SJUSL001-AS034-N	0	
UpstrmSedLoad	SJUSL001-AS035-N	SJUSL001-AS035-N	0	

UpstrmSedLoad	SJUSL001-AS036-N	SJUSL001-AS036-N	0
UpstrmSedLoad	SJUSL001-AS037-N	SJUSL001-AS037-N	0
UpstrmSedLoad	SJUSL001-AS038-N	SJUSL001-AS038-N	0
UpstrmSedLoad	SJUSL001-AS039-N	SJUSL001-AS039-N	0
UpstrmSedLoad	SJUSL001-AS040-N	SJUSL001-AS040-N	0
UpstrmSedLoad	SJUSL001-AS041-N	SJUSL001-AS041-N	0
UpstrmSedLoad	SJUSL001-AS042-N	SJUSL001-AS042-N	0
UpstrmSedLoad	SJUSL001-AS043-D	SJUSL001-AS043-N	0
UpstrmSedLoad	SJUSL001-AS043-N	SJUSL001-AS043-N	0
UpstrmSedLoad	SJUSL001-EWI001-N	SJUSL001-EWI001-N	0

study_id	full_name	sponsor	contact	qa_level	data_quality	primary_doc	source_qa_level	qa_doc	qa_comments	comments
UpstrmSedLoad	Upstream Sediment Load Study	IP and MIMC		NoQA		UpstrmSedLoad_FSP				

study_id	study_loc_id	location_id	reference_loc	defining_doc	loc_method	comments	site	description	elevation	elev_unit
UpstrmSedLoad	SJUSL001	SJUSL001	FALSE	UpstrmSedLoad_FSP	GPS					

study_id	study_loc_id	loc_method	coord_geom	comments	defining_doc	x_coord	y_coord	coord_sys	srid	x_original	y_original	srid_original	coord_qual
UpstrmSedLoad	SJUSL001	GPS			UpstrmSedLoad_Fl	3211683.366	13858959.19	NAD83, TX South Central	2278	3211683.366	13858959.19	2278	

method_code	description	lab_leach_method	lab_prep_method	lab_extraction_method	lab_anal_method
105dry	Gravimetrically, dried at 105oC.				Grav
110dry	Dried at 110 C.				110dry
1N AmmAcet	1N ammonium acetate, ph=7				1N AmmAcet
6010	EPA Method 6010 (ICP)				6010
AAS	Atomic Absorption Spectroscopy				AAS
AAS_100	Atomic Absorption Spectroscopy		-100 Mesh		AAS
AAS_AmAc	Atomic Absorption Spectrophotometry using ammonium acetate extract			CH3COONH4	AAS
AAS_ARD	aqua regia digestion-atomic absorption spectrometry			ARD	AAS
AAS_HCl	Atomic Absorption Spectrophotometry using 0.1 N HCl extract			0.1 N HCL	AAS
AAS_Recov	AAS of recoverable fraction			Recov	AAS
AAS_TD	Atomic Absorption Spectroscopy after total digestion			T20	AAS
AD_thiocyanate	AD, thiocyanate				AD
AFS_P_Mo	ASF, phosphomolybdate formation				ASF
AOAC996.06	Association of Analytical Chemists method for lipids				AOAC996.06
APDC_MIBK_AAS	AAS with APDC-MIBK extraction			APDC_MIBK	AAS
As_species	Nonspecific As method used for EPA 2005 tissue data				NA
ASF_block	ASF, block digest		BlockDgst		ASF
ASF_Cd	ASF, Cd reduction				ASF
ASF_Diazo	ASF, diazotization				ASF
ASF_indophenol	ASF, indophenol				ASF
ASF_Met_Blue	ASF, methylthymol blue				ASF
ASF_MoBlue	ASF, molybdate blue formation				ASF
ASF_Sal_Hypo	ASF, salicylate-hypochlor				ASF
ASF_thiocyanate	ASF, thiocyanate				ASF
ASF_uKjeld	ASF, microkjeldahl		uKjeldahl		ASF
ASF_uKjeld_H	ASF, microkjeldahl digestion, acidified		uKjeldahl		ASF
ASF_uKjeld_Hg	ASF, microkjeldahl digestion, Hg		uKjeldahl		ASF
AVS_SEM	Acid Volatile Sulfide/Simultaneously Extracted Metals			SEM	AVS
Calculated	Calculated from lab data and added back into database.				
CanSoil	Canadian soil manual				CanSoil
CARB435	Asbestos by PLM		CARB435		CARB435
CLP_SOW	based on SW846 method 6010B/7471				CLP_SOW
CLP_LOW	CLP LOW				CLP_LOW
CLP-SOW DLM01.4	Contract Laboratory Program Statement Of Work for Multi-Media, Multi-Concentration Dioxins and Furans Analysis				SOWDLM01.4
CmbCO2_HCl	Combustion at 1350 C - measurement of evolving CO2 using infrared detector		10HCl		CombCO2
COL_Acid	Colorimetry, acidified				COLOR
COL_AMAAPAT	Colorimetric: with ammonium molybdate, ascorbic acid, and potassium antimonyl tartrate. Colorimetric: Nitrogen compounds are oxidized to nitrate which then is reduced to nitrite, then reacted to a diazo compound, then coupled with n-(1-naphthyl)ethylenediamine dihydrochloride to form an azo dye				COLOR
COL_Azo	Colorimetric: BaCl2 and methylthymol blue				COLOR
COL_BaCl_MB	Colorimetric: BaCl2 and methylthymol blue				COLOR
COL_Cd	Colorimetry, cadmium reduction				COLOR
COL_Cd_LL	Colorimetry, cadmium reduction, low level				COLOR
COL_Cl_Barb	Colorimetrically using chloramine-t and pyridine barbituric acid				COLOR
COL_FeNO3_MT	Colorimetric: ferric nitrate and mercury thiocyanate				COLOR
COL_Jirka	Colorimetry using digestion by the Jirka method		Jirka		COLOR
COL_KHSO4	potassium bisulphate fusion - colorimetric determination				COLOR

COL_Kjeld	Colorimetrically using a technicon autoanalyser on a semi-micro Kjeldahl digest	Kjeldahl		COLOR
COL_Kjeld_Acid	Colorimetry, Kjeldahl digestion, acidified	Kjeldahl		COLOR
COL_LL	Colorimetry, low level			COLOR
COL_Mo_Blue	Colorimetric: with ammonium molybdate			COLOR
COL_modJirka	Colorimetry using digestion by the modified Jirka method	modJirka		COLOR
COL_P_Mo	Phosphomolybdate colorimetry			COLOR
COL_P_Mo_LL	Phosphomolybdate colorimetry, low level			COLOR
COL_Sal_Hypo	Colorimetry, salicylate-hypochlor			COLOR
COL_VitC	Colorimetrically using the ascorbic acid development on a 1:10 soil to Bray extract.		Bray	COLOR
COLOR	Colorimetric Determination			COLOR
COLOR_100	Colorimetric Determination	-100 Mesh		COLOR
CombCO2	CombCO2			CombCO2
CombGas	CombGas			CombGas
CombSO2	Combustion at 1350 c - measurement of evolving SO2 using infrared detector			CombSO2
CombVol	CombVol			CombVol
CondMeter	Conductance measured in water with a conductivity meter			CondCell
Cs_curve	Calibration self-absorption curves based on Cs-137.			CSAC
CSR_1	B.C. MOELP CSR Method 1 "Volatile Hydrocarbons in Soils by GC/FID"		Meth	GC_FID
CSR_3	B.C. MOELP CSR Method 3 "Extractable Petroleum Hydrocarbons in Soils by GC/FID"		AcHx	GC_FID
CSR_5	B.C. MOELP CSR Method 5 "Calculation of Volatile Petroleum Hydrocarbons in Soils or Water (VPH)"			NA
CSR_6	B.C. MOELP CSR Method 5 "Calculation of Light and Heavy Extractable Petroleum Hydrocarbons in Soils or Water (LEPH & HEPH)"			NA
CVAA_Man	Mercury in Solid/Semisolid Waste by Manual Cold Vapor Atomic Absorption (CVAA).			CVAA
CVAAS	Cold Vapour Atomic Absorption Spectrophotometry	WetOxDig		CVAAS
CVAAS_ARD	Cold Vapour Atomic Absorption Spectroscopy		ARD	CVAAS
CVAAS_Recov	CVAAS of recoverable fraction		Recov	CVAAS
CVAF	Cold Vapour Atomic Fluorescence			CVAF
D2216	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass			D2216
D422	ASTM Method D422 for grain size			D422
D854	Standard Test Methods for Specific Gravity of Soil Solids by Water Pycnometer			D854
DataLogger	Data Logger (transducer)			
DCP-AES	Direct Current Plasma Atomic Emission Spectrometry			AES
DNC_100	Delayed Neutron Counting	-100 Mesh		DNC
EC_slurry	Electrical Conductivity determined on a 1:1 soil to distilled water slurry using a radiometer conductivity cell.			CondCell
EDTA_Titr	EDTA Titration			Titration
EP1_206.2	EP1_206.2			EP1_206.2
EP1_270.2	EP1_270.2			EP1_270.2
EP1_279.2	EP1_279.2			EP1_279.2
EPA_120.1	Specific conductivity (conductance) by conductivity meter @ 25 deg C			
EPA_160.1	TDS; Residue, Filterable (Gravimetric, Dried at 180 oC)			EPA_160.1
EPA_160.2	Residue, Total, Gravimetric, Dried at 103-105 Deg-C, EPA160.2			EPA_160.2
EPA_160.3	Residue, Total, Gravimetric, Dried at 103-105 Deg-C, EPA160.3			EPA_160.3
EPA_1600	Enterococci in Water by Membrane Filtration Using mEI Agar			EPA_1600
EPA_200.7	EPA 200.7			EPA_200.7
EPA_200.8	Metals and Trace Elements in Waters by ICP-MS			EPA_200.8
EPA_200.8_Recov	Metals and Trace Elements in Waters by ICP-MS on a total recoverable fraction		Recov	EPA_200.8
EPA_200.8M	Metals and Trace Elements in Waters by ICP-MS -- modified, unspecified			EPA_200.8

EPA_202.1	EPA 202.1		EPA_202.1
EPA_206.2	EPA 206.2		EPA_206.2
EPA_213.2	EPA 213.2		EPA_213.2
EPA_220.2	EPA 220.2		EPA_220.2
EPA_236.1	EPA 236.1		EPA_236.1
EPA_239.2	EPA 239.2		EPA_239.2
EPA_243.1	EPA 243.1		EPA_243.1
EPA_245.5	EPA 245.5		EPA_245.5
EPA_245.7	Mercury by Cold Vapor Atomic Fluorescence (CVAF)		EPA_245.7
EPA_289.2	EPA 289.2		EPA_289.2
EPA_310.2	Alkalinity (Colorimetric, Automated, Methyl Orange)		EPA_310.2
EPA_350.1	Nitrogen as Ammonia, Colorimetric, Automated Phenate		EPA_350.1
EPA_351.2	Total Kjeldahl Nitrogen Colorimetric, Semi-Automated Block Digester		EPA_351.2
EPA_353.2	Nitrogen, Nitrate-Nitrite (Colorimetric, Automated Cadmium Reduction)		EPA_353.2
EPA_360.2	Dissolved Oxygen (DO) by Modified Winkler Full Bottle		EPA_360.2
EPA_365.1	Phosphorus, All Forms (Colorimetric, Automated, Ascorbic Acid)		EPA_365.1
EPA_365.1M	Phosphorus (All Forms), Colorimetric, Automated- Low Level, Ascorbic Acid		EPA_365.1
EPA_365.3	Phosphorus, (All Forms), Colorimetric, Ascorbic Acid, Two Reagent		EPA_365.3
EPA_365.3M	Phosphorus, Ortho-phos; Colorimetric, Ascorbic Acid, Two Reagent low level cal.		EPA_365.3
EPA_365.3OP	Phosphorus, Ortho-phos; Colorimetric, Ascorbic Acid, Two Reagent		EPA_365.3
EPA_410.1	Chemical Oxygen Demand, Titrimetric, Mid-Level		
EPA_415.1	TOC by combustion		
EPA_415.2	TOC - UV Promoted		EPA_415.2
	Determination of Carbon and Nitrogen in Sediments and Particulates of Estuarine/Coastal Waters		
EPA_440	Using Elemental Analysis		EPA_440
EPA_7740	EPA 7740		EPA_7740
EPA1613A	EPA Standard Method for High Resolution Analysis of Dioxins/Furans in Water		EPA1613A
EPA1613B	EPA Standard Method for High Resolution Analysis of Dioxins/Furans		EPA1613B
	Chlorinated Biphenyl Congeners in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS		
EPA1668A	(revision A)		EPA1668A
EPA200.7SA	EPA 200.7 (ICP)	StrongAc	EPA_200.7
EPA200.8_3050B	EPA 200.8 (ICPMS)	EPA3050B	EPA_200.8
EPA206.2SA	EPA 206.2 (GFAA)	StrongAc	EPA_206.2
EPA239.2SA	EPA 239.2 (GFAA)	StrongAc	EPA_239.2
EPA245.1	Mercury (Cold Vapor, Manual)		EPA245.1
EPA279.2SA	EPA 279.2 (GFAA)	StrongAc	EPA_279.2
EPA7740SA	EPA 7740 (GFAA)	StrongAc	EPA_7740
EPA8260B	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry	EPA5030	8260
EPA9060	EPA SW846 9060 for TOC		9060
Evap180C	Evaporation at 180oC		Evapour
Evapour	Evaporation		Evapour
FEP 4.5	Fixed endpoint (pH 4.5) titration		Titration
	Stop titration at pH 4.5 and record the volume and exact pH. Add additional titrant to reduce the pH		
FEP 4.5_03	by exactly 0.3 pH units and record the volume again.		Titration
FES	Flame Emission Spectroscopy		FES
FES_100	Flame Emission Spectroscopy	-100 Mesh	FES
Filter	Filtration		Filter
FlameAAS	Flame AAS		AAS
Freeze Dry	Freeze Dried Solids		Freeze Dry
FS	Fluorometry (Fluorescence Spectroscopy)		FS

FTC	Flow-through centrifuge		FTC
g_count	gamma counting		g_count
GCECD_Phen	based on EPA 604/8040		GC_ECD
GCMS_PAH	based on EPA 625/8270		GC_MS
GCMS-SIM	GCMS-SIM		GC_MS
GCMS-SIM_Rec	GCMS-SIM on a recoverable fraction		GC_MS
GFAAS	Graphite Furnace Atomic Absorption Spectrometry		GFAAS
GFAAS_Recov	GFAAS of reoverable fraction	Recov	GFAAS
Grav	Gravimetric		Grav
	Gravimetric: Filtered; filtrate is evaporated in a preignited pt dish, the dish is ignited in a muffle furnace at 550oC for 30 min, cooled in a desiccator, and weighed		Grav
Grav_Ign_Filt	Gravimetric: Filtered; residue is placed in a porcelain dish, ignited in a muffle furnace at 550oC for 30 min, cooled in a desiccator, and weighed		Grav
Grav_Ign_Res	Field titrating drops of H2SO4 into water until a pH of ~ 4.5 is reached.		Grav
H2SO4_Titr	Hydride Generation Atomic Absorption Spectroscopy		Titration
HGAAS	Hydride Generation Atomic Absorption Spectroscopy after total digestion	T20	HGAAS
HGAAS_TD	Hi-Bismuth reducible method on a 1:2 soil to calcium chloride extract.	CaCl2	Hi-Bismuth
Hi-Bismuth	Total Suspended Particulate matter less than 10 um in diameter trapped in a high volume air sampler.		HiVol_PM10
HiVol_PM10	Hydride generation		HiVol_PM10
HydGen	Ion Chromatography		HydGen
IC	Inductively Coupled Argon Plasma Spectroscopy (SALM)	SALM	IC
ICAP_SAL	ICP MS		ICAP
ICP_MS	aqua regia digestion-inductively coupled plasma mass spectrometry	ARD	ICP_MS
ICP_MS_ARD	ICP_MS of reoverable fraction	Recov	ICP_MS
ICP_MS_Recov	ICP MS using Strong Acid Leachable Metals (SALM)	3051 SALM	ICP_MS
ICP_MS_SAL	ICP_MS using sequential selective extraction	SSE	ICP_MS
ICP_MS_SSE	ICP_MS using total four-acid digestion	T20	ICP_MS
ICP_MS_T20	Inductively coupled plasma – optical emission spectrometer		ICP_MS
ICP_OES	Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) for Metals and Trace Elements, SW6010		ICP_OES
ICP-AES	ICP-AES with extraction method 3050B	EPA3050B	ICP-AES
ICPAES_3050B	Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES)	CLAA	ICP-AES
ICP-AES_CLAA	ICP-AES of reoverable fraction	Recov	ICP-AES
ICP-AES_Recov	Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES)	T20	ICP-AES
ICP-AES_TD	ICP-MS with extraction method 3050B	EPA3050B	ICP_MS
ICPMS_3050B	ICP-MS with extraction method CLFAA	CLFAA	ICP_MS
ICPMS_CLFAA	instrumental neutron activation analysis		INAA
INAA	Incremental titration		Titration
IncrTitr	sodium carbonate-potassium nitrate fusion-specific ion electrode		ION
ION	Infrared analyses using 0.45u filter	0_45u	IR
IR_perS_045	IR on an automated SHIMADZU system. Total C: sample is injected on a Pt catalyst packed tube at 680oC. TIC: the sample is injected into an inorganic reaction vessel containing 25% phosphoric acid.		IR
IR_Shimadzu	Ion selective Electrode		ISE
ISE	KF streptococcus MF		KFstrep_MF
KFstrep_MF	Soil core equilibrated at 0.33 bars and at 15 bars in a pressure chamber after being allowed to saturate. The Available Water Storage Capacity (AWSC) is the difference between water content measured each time divided by the soil core volume.	Dry sieved	Klute
Klute	Numerical value was calculated in lab from other data available.		Klute
LabCalc			

LECO CR 12	LECO CR 12 carbon analyzer		LECO CR 12
LECO S	LECO Sulfur Analyser		LECO S
LloydKahn	Determination of Total Organic Carbon in Sediment		LloydKahn
mEndo_MF	m-Endo MF		mEndo_MF
mEnteromF	m-Enterococcus MF		mEnteromF
MFC	Membrane Filter Count	0_45u	
mFC_MF_0_45	mFC MF (0.45 micron)		mFC_MF
mFC_MF_0_7	mFC MF (0.7 micron)		mFC_MF
NAA	Neutron Activation Analysis		NAA
NAA_100	Neutron Activation Analysis	-100 Mesh	NAA
NADNC	Neutron Activation with Delayed Neutron Counting		NADNC
NADNC_100	Neutron Activation with Delayed Neutron Counting	-100 Mesh	NADNC
NatU_curve	Calibration self-absorption curves based on natural Uranium.		CSAC
NOAA LIPID	NOAA LIPID		NOAA LIPID
	Particle size is determined using the pipette method. The sand content is determined by wet sieving.		
PartSize_H	Organic matter destroyed with sodium hypochlorite.	NaOCl	SievePipet
pH	Potentiometric pH meter		pH_meter
pH_glass	pH using glass electrode		pH_meter
	Based on procedures described in the Manual on Soil Sampling and Methods of Analysis (Canadian Society of Soil Science, 1993) using a deionized water leach.		
pH_leach			pH_meter
pH_slurry	pH determined potentiometrically using radiometer pH meter on a 1:1 soil to distilled water slurry.		pH_meter
PID	Photo-Ionization Detector - for soil vapours		PID
Planchet_count	Planchet count		Planchet_C
PM10	weather station		NA
PSEP	PSEP		PSEP
	Puget Sound Estuary Protocols, Conventional Sediment Variables, Particle/Grain Size by Sieve-		
PSEP_GrSz	Pipette, 1986, Minor Rev. 2003		SievePipet
PSEP_TOC	PSEP TOC		PSEP_TOC
PSEP_TOCM	PSEP TOCM		PSEP_TOCM
PT_001N_SO4	Potentiometric titration using 0.01N H2SO4		Titration
PT_45_42	Potentiometric titration using H2SO4 or HCL to pH=4.5 and then to pH=4.2		Titration
PT_83	Potentiometric titration using H2SO4 or HCL TO pH=8.3		Titration
Radon	Radon method		Radon
Sieved	Sieved	Dry sieved	Sieved
SM14-214B	Turbidity, Visual Methods - Jackson Turbidity Units		
SM16-1002G	Spectrophotometric determination of chlorophyll a in the presence of pheophytin		
SM16-909C	Fecal Coliform by Membrane Filtration using mFC Medium.		
SM17-9230C	Fecal Strep and Enterococci by Membrane Filtration		
SM2130	Nephelometer		
SM2320	Alkalinity; Total Hydroxide, Bicarbonate, Carbonate		
SM2320B	Alkalinity, Total (Hydroxide, Carbonate and Bicarbonate) by Titrimetry, pH 4.5		Titration
SM2340B	Hardness, Total (as CaCO3), calculated		
SM2510B	Specific conductivity		SM2510B
SM2540D	Total Suspended Solids (TSS) Dried at 103 -105 deg C		SM2540D
SM4500NB	Total Persulfate Nitrogen		SM4500NB
SM4500NH3H	Nitrogen (as Ammonia, NH3) by Flow Injection Analysis		SM4500NH3H
SM4500NO3I	Nitrogen (Nitrate, NO3/Nitrite, NO2) by Cadmium Reduction Flow Injection Method		
SM4500PG	Phosphorus/Orthophosphate by Flow Injection Analysis		SM4500PG
SM4500PI	Total Phosphorus by In-Line UV/Persulfate Digestion and Flow Injection Analysis		SM4500PI

SM5310C	Organic Carbon by Persulfate-Ultraviolet or Heated-Persulfate Oxidation			SM5310C
SM9222D	Fecal Coliform by Membrane Filtration using mFC Medium			SM9222D
SOWILM05.3CVAAS	Cold Vapor with Atomic Absorption for total mercury			SOWILM05.3
	Contract Laboratory Program Statement Of Work for Multi-Media, Multi-Concentration for Organic			
SOWOLM04.3	Analysis			SOWOLM04.3
Spectrophoto	Spectrophotometrically			SpectrpPho
Sr_Y_curve	Calibration self-absorption curves based on Sr-90/Y-90.			CSAC
	Savannah River - Supplemental Analysis of sediments for extractable U by unnamed contract			
SR3-XU	Laboratory; Analytical Method not recorded			NA
	Savannah River - Supplemental Analysis of sediments for extractable U by unnamed contract			
SR3-XU_100	Laboratory; Analytical Method not recorded		-100 Mesh	NA
	Savannah River - Supplemental Analysis of sediments for As, Se, and Ca by unnamed contract			
SR3-XX	Laboratory; Analytical Method not recorded			NA
	Savannah River - Supplemental Analysis of sediments for As, Se, and Ca by unnamed contract			
SR3-XX_100	Laboratory; Analytical Method not recorded		-100 Mesh	NA
StrongAc	Strong acid digestion			StrongAc
SW6020	SW-846 Inductively Coupled Plasma-Mass Spectrometry			NA
SW6020A_3050B	SW6020A with extraction method 3050B			SW6020
SW6020-TCLP	TCLP by SW-846 Inductively Coupled Plasma-Mass Spectrometry	TCLP		SW6020
SW7470A	Mercury in Liquid Waste (Manual Cold-Vapor Technique)			SW7470A
SW7471	SW-846 Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)			SW7471
SW7471A	Mercury by Cold Vapor Atomic Fluorescence (CVAF)			SW7471
SW7471A_2mm	SW7471A with lab prep method 2mm sieve		2mm sieve	SW7471
SW7471B	Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)			SW7471
SW7471-TCLP	TCLP by SW-846 Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)	TCLP		SW7471
SW8081A_3541	SW8081A with extract method 3541			EPA3541
SW8082	SW-846 Polychlorinated Biphenyls (PCBs) by Gas Chromatography			8081
SW8082_3535	SW8082 with extraction method 3535			SW8082
SW8082_3535A	SW8082 with extraction method 3535A			EPA3535
SW8082_3541	SW8082 with extraction method 3541			EPA3535
SW8260C_5030	SW8260C with extraction method 5030			EPA3541
SW8270	SW-846 Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry			EPA5030
SW8270C_3520C	SW8270C with extraction method 3520C			8260
SW8270C_3541	SW8270C with extraction method 3541			8270
SW8270CSIM_3520	SW8270C selective ion monitoring with extraction method 3520			EPA3520C
SW8270CSIM_3541	SW8270C selective ion monitoring with extraction method 3541			EPA3541
	Polychlorinated Dibenzo-P-Dioxins And Polychlorinated Dibenzofurans By High Resolution Gas			
SW8280	Chromatography/Low Resolution Mass Spectrometry (HRGC/LRMS)			SW8280
	Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs) by High-			
SW8290	Resolution GC/High Resolution MS			SW8290
SW9012A	Total and Amenable Cyanide (Automated Colorimetric)			SW9012
Th-230_curve	Calibration self-absorption curves based on Th-230.			CSAC
THERM	Thermometer (mercury)			THERM
Turbid	Turbidimetry			Turbid
Turbid_bkg_corr	Turbidimetry with background correction			Turbid
TX1005	TCEQ Method used in lieu of EPA Method 418.1 for the analysis of total petroleum hydrocarbons			TX1005
Unk	Unknown or not specified			Unk
UnkRecov	Method not specified however known to involve recoverable fraction			
VALDERRAMA	Total Persulfate Nitrogen (TPN) and Phosphorus			

Visual_comp	Visual comparison. Aliquot of the centrifuged sample in a nessler tube is compared to std. colour		
Walkley-Black	solns., which are either hellige aqua tester colour solns. or std. solns. of chloroplatinate and co ions.		
WetOx0_45	Walkley-Black method for the determination of total organic carbon		WalkleyBlk
XRF	Wet oxidation using 0.45u filter	0_45u	WetOx
	X-ray fluorescence		XRF

anal_type	description
Any	Any
Asbestos	Asbestos
Convent	Conventionals
Dioxins	Dioxins and furans
GrainSize	Grain Size
Isotopes	Radioisotopes
Lipids	Lipids
Metals	Metals
PCBs	Polychlorinated biphenyls
PestPCB	Pesticides and PCBs
Petroleum	Petroleum Hydrocarbons
SVOCs	Semivolatile organic compounds
VOCs	Volatile organic compounds

analyte	full_name	chem_class	aliases	cas_rn
<200 Total	Particles < 75 um in diameter (passing a #200 sieve)	GrainSize		T200
1112TetraClEth	1,1,1,2-Tetrachloroethane	Volatiles		630206
111TriClEth	1,1,1-Trichloroethane	Volatiles		71556
1122TetraClEth	1,1,2,2-Tetrachloroethane	Volatiles		79345
112TriClEth	1,1,2-Trichloroethane	Volatiles		79005
11Biphenyl	1,1'-Biphenyl	PAH		92524
11DiClEth	1,1-Dichloroethane	Volatiles		75343
11DiClEthe	1,1-Dichloroethene	Volatiles		75354
11DiClPrope	1,1-Dichloropropene	Volatiles	1,1-Dichloropropylene; 1,1-Dichloro-1-propene	563586
1234678HepDioxin	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	DioxinFura		35822469
1234678HepFuran	1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan	DioxinFura		67562394
1234789HepFuran	1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan	DioxinFura		55673897
123478HexDioxin	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	DioxinFura		39227286
123478HexFuran	1,2,3,4,7,8-Hexachlorodibenzo-p-furan	DioxinFura		70648269
1234TetClBenzene	1,2,3,4-Tetrachlorobenzene	Volatiles		634662
123678HexDioxin	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	DioxinFura		57653857
123678HexFuran	1,2,3,6,7,8-Hexachlorodibenzo-p-furan	DioxinFura		57117449
123789HexDioxin	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	DioxinFura		19408743
123789HexFuran	1,2,3,7,8,9-Hexachlorodibenzo-p-furan	DioxinFura		72918219
12378PenDioxin	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	DioxinFura		40321764
12378PenFuran	1,2,3,7,8-Pentachlorodibenzo-p-furan	DioxinFura		57117416
123TriClBenzene	1,2,3-Trichlorobenzene	Volatiles	1,2,6-Trichlorobenzene	87616
123TriClProp	1,2,3-Trichloropropane	Volatiles		96184
1245TetClBenzene	1,2,4,5-Tetrachlorobenzene	Volatiles	1,2,4,5-Tetrachlorobenzene; benzene tetrachloride; s-tetrachlorobenzene; TCB; Tetrachlorobenzene; Tetrachlorobenzene, 1,2,4,5-;	95943
124TriClBenzene	1,2,4-Trichlorobenzene	SemiVolati		120821
124TriMeBenzene	1,2,4-Trimethylbenzene	Volatiles	Pseudocumene; 1,2,5-Trimethylbenzene; 1,3,4-Trimethylbenzene	95636
12DiBr3ClProp	1,2-Dibromo-3-chloropropane	Volatiles	DBCP	96128
12DiBrEth	1,2-Dibromoethane	Volatiles		106934
12DiClBenzene	1,2-Dichlorobenzene	SemiVolati		95501
12DiClEth	1,2-Dichloroethane	Volatiles		107062
12DiClProp	1,2-Dichloropropane	Volatiles		78875
135TriMeBenzene	1,3,5-Trimethylbenzene	Volatiles	Mesitylene; 3,5-Dimethyltoluene	108678
135TrinitrBenzen	1,3,5-Trinitrobenzene	SemiVolati		99354
13C_OCDD	13C Octachlorodibenzo-p-dioxin			114423971
13C1234678HpCDD	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin			109719837
13C1234678HpCDF	13C12-1,2,3,4,6,7,8-Heptachlorodibenzo-p-furan			109719848
13C1234789HpCDF	13C12-1,2,3,4,7,8,9-Heptachlorodibenzo-p-furan			109719940
13C123478HxCDD	13C12-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin			109719804
13C123478HxCDF	13C12-1,2,3,4,7,8-Hexachlorodibenzofuran			114423982
13C123678HxCDD	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin			109719815
13C123678HxCDF	13C12-1,2,3,6,7,8-Hexachlorodibenzo-p-furan			116843039
13C123789HxCDF	13C12-1,2,3,7,8,9-Hexachlorodibenzo-p-furan			116843040
13C12378PeCDD	13C12-1,2,3,7,8-Pentachlorodibenzo-p-dioxin			109719791
13C12378PeCDF	13C12-1,2,3,7,8-Pentachlorodibenzo-p-furan			109719779
13C234678HxCDF	13C12-2,3,4,6,7,8-Hexachlorodibenzo-p-furan			116843051
13C23478PeCDF	13C12-2,3,4,7,8-Pentachlorodibenzo-p-furan			116843028
13C2378TCDD	13C12-2,3,7,8-Tetrachlorodibenzo-p-dioxin			76523405
13C2378TCDF	13C12-2,3,7,8-Tetrachlorodibenzo-p-furan			89059461
13DiClBenzene	1,3-Dichlorobenzene	SemiVolati		541731
13DiClProp	1,3-Dichloropropane	Volatiles		142289
13Dinitrobenzene	1,3-Dinitrobenzene	SemiVolati		99650
14ClDehydroAbiet	14-Chlorodehydroabietic Acid	ResinAcid		
14DiClBenzene	1,4-Dichlorobenzene	SemiVolati		106467
14Dioxane	1,4-Dioxane	Volatiles		123911
14Naphthoquinone	1,4-Naphthoquinone	SemiVolati		130154
14Phenylenediam	1,4-Phenylenediamine	SemiVolati		106503
1ClNaphthalene	1-Chloronaphthalene	SemiVolati	alpha-Chloronaphthalene; 1-Naphthyl chloride	90131
1MethylNaph	1-Methylnaphthalene	SemiVolati		90120
1Naphthylamine	1-Naphthylamine	SemiVolati		134327
1Pentanol	1-Pentanol	SemiVolati		71410

22DiClProp	2,2-Dichloropropane	Volatiles	Dichlorodimethylmethane; Dimethyldichloromethane	594207
22OxyBis1ClProp	2,2'-oxybis(1-Chloropropane)	SemiVolati		108601
2345TetrClPhenol	2,3,4,5-Tetrachlorophenol	Phenols		4901513
2346-56TetClPhnl	2346- and 2356- Tetrachlorophenol	Phenols		
234678HexFuran	2,3,4,6,7,8-Hexachlorodibenzo-p-furan	DioxinFura		60851345
2346TetrClPhenol	2,3,4,6-Tetrachlorophenol	Phenols		58902
23478PenFuran	2,3,4,7,8-Pentachlorodibenzo-p-furan	DioxinFura		57117314
234TriClPhenol	2,3,4-Trichlorophenol	Phenols		15950660
235TriClPhenol	2,3,5-Trichlorophenol	Phenols		933788
236TriClPhenol	2,3,6-Trichlorophenol	Phenols		933755
2378TetDioxin	2,3,7,8-Tetrachlorodibenzo-p-dioxin	DioxinFura	TCDD	1746016
2378TetFuran	2,3,7,8-Tetrachlorodibenzo-p-furan	DioxinFura		51207319
23DiClPhenol	2,3-Dichlorophenol	Phenols		576249
24_D	2,4-Dichlorophenoxyacetic acid	Herbicides	2,4-D	94757
24-34DiClPhenol	2,4- and 3,4-Dichlorophenol	Phenols		
245_T	2,4,5-Trichlorophenoxy-acetic acid	Herbicides	2,4,5-T	93765
245TriClPhenol	2,4,5-Trichlorophenol	Phenols		95954
246TriBrPhenol	2,4,6-Tribromophenol	Phenols		118796
246TriClPhenol	2,4,6-Trichlorophenol	Phenols		88062
24DDD	2,4'-DDD	Pesticides		53190
24DDE	2,4'-DDE	Pesticides		3424826
24DDT	2,4'-DDT	Pesticides		789026
24DiClPhenol	2,4-Dichlorophenol	Phenols		120832
24DiMePhenol	2,4-Dimethylphenol	SemiVolati		105679
24DiNiPhenol	2,4-Dinitrophenol	SemiVolati		51285
24DiNiToluene	2,4-Dinitrotoluene	SemiVolati		121142
25DiClPhenol	2,5-Dichlorophenol	Phenols		
26DiClPhenol	2,6-Dichlorophenol	Phenols		87650
26DiEthylAn	2,6-Diethylaniline	Pesticides		579668
26DiNiToluene	2,6-Dinitrotoluene	SemiVolati		606202
2AcetylAminoFlou	2-Acetylaminofluorene	PAH		53963
2ClEtOxEthe	2-Chloroethoxy ethene	Volatiles	2-Chloroethyl vinyl ether; 2-Chlorethyl vinyl ether; 2-Vinyloxyethyl chloride; Vinyl 2-chloroethyl ether; beta-Chloroethyl vinyl ether	110758
2ClNaphthalene	2-Chloronaphthalene	SemiVolati		91587
2ClPhenol	2-Chlorophenol	Phenols		95578
2ClToluene	2-Chlorotoluene	Volatiles	o-Chlorotoluene; ortho-Chlorotoluene; 1-Chloro-2-methylbenzene; 1-Methyl-2-chlorobenzene	95498
2FIBiphenyl	2-Fluorobiphenyl	SemiVolati	2-Fluoro-1,1'-biphenyl; o-Fluorodiphenyl; ortho-Fluorodiphenyl	321608
2FIPhenol	2-Fluorophenol	SemiVolati	1-Fluoro-2-hydroxybenzene; o-Fluorophenol	367124
2Hexanone	2-Hexanone	Volatiles		591786
2MeNaphthalene	2-Methylnaphthalene	PAH		91576
2MePhenol	2-Methylphenol	SemiVolati	o-Cresol	95487
2Naphthylamine	2-Naphthylamine	SemiVolati		91598
2NiAniline	2-Nitroaniline	PAH		88744
2NiPhenol	2-Nitrophenol	SemiVolati		88755
2Octanone	2-Octanone	Volatiles		111137
2Picoline	2-Picoline	SemiVolati	2-Methylpyridine	109068
2Propanol	2-Propanol	SemiVolati	Isopropyl alcohol; 1-Methylethanol; 1-Methylethyl alcohol; 2-Hydroxypropane	67630
2secbuty46diPhe	2-sec-butyl-4,6-dinitrophenol	Herbicides	Dinoseb	88857
33DiClBenzidine	3,3'-Dichlorobenzidine	SemiVolati	3,3'-Dichloro-4,4'-Biphenyldiamine	91941
33PDimethBenzid	3,3'-Dimethylbenzidine	SemiVolati		119937
345TriClPhenol	3,4,5-Trichlorophenol	Phenols		609198
34MePhenol	3,4-Methylphenol	SemiVolati	m,p-Methylphenol;3,4-Cresol;m,p-Cresol	15831104
35DiClPhenol	3,5-Dichlorophenol	Phenols		
37Cl4-2378TCDD	37Cl4-2,3,7,8-TCDD (?? U.S. EPA 2005 tissue data)			85508505
3ClPhenol	3-Chlorophenol	Phenols		108430
3MePhenol	3-Methylphenol	SemiVolati	m-Cresol	108394
3MethylCholAnthr	3-Methylcholanthrene	PAH		56495
3NiAniline	3-Nitroaniline	PAH		99092
44DDD	4,4'-DDD	Pesticides		72548
44DDE	4,4'-DDE	Pesticides		72559
44DDT	4,4'-DDT	Pesticides		50293

44EthylDDD	p,p'-Ethyl-DDD	Pesticides		72560
46DiNi2MePhenol	4,6-Dinitro-2-methylphenol	SemiVolati		534521
4AminoBiphenyl	4-amino-diphenyl	SemiVolati	4-Amino biphenyl	92671
4BrFlBenzene	4-Bromofluorobenzene	Volatiles	1-Bromo-4-fluorobenzene; 1-Fluoro-4-bromobenzene; 4-Fluoro-1-bromobenzene; 4-Fluorobromobenzene; 4-Fluorophenyl bromide; p-Bromofluorobenzene	460004
4BrPhPhEther	4-Bromophenyl-phenylether	SemiVolati		101553
4Cl3MePhenol	4-Chloro-3-methylphenol	SemiVolati		59507
4ClAniline	4-Chloroaniline	SemiVolati		106478
4ClPhenol	4-Chlorophenol	Phenols		106489
4ClPhPhEther	4-Chlorophenyl-phenyl ether	SemiVolati		7005723
4ClToluene	4-Chlorotoluene	Volatiles	p-Chlorotoluene; para-Chlorotoluene; 1-Chloro-4-methylbenzene; 1-Methyl-4-chlorobenzene	106434
4IsoProToluene	4-Isopropyl toluene	Volatiles	p-Cymene; para-Cymene; 4-Cymene; 1-Isopropyl-4-methylbenzene; 1-Methyl-4-isopropylbenzene	99876
4MePhenol	4-Methylphenol	SemiVolati	p-Cresol	106445
4Meth2Pentanone	4-Methyl-2-pentanone	Volatiles		108101
4NiAniline	4-Nitroaniline	PAH		100016
4NiPhenol	4-Nitrophenol	SemiVolati		100027
4Nitroquin1Oxide	4-Nitroquinoline-1-oxide	SemiVolati		56575
5NitroOToluidine	5-Nitro-o-toluidine	SemiVolati		99558
712DimethBAA	7,12-Dimethylbenz(a)anthracene	PAH		57976
814AbietenicAcid	8(14)-Abietenic Acid	ResinAcid		
910DiClSteAcid	9,10-Dichlorostearic Acid	FatAcid		
aaDimethPhenAmin	a,a-Dimethylphenethylamine	SemiVolati		122098
AbieticAcid	Abietic Acid	ResinAcid		
AbietLevoPimaric	Abietic and levo pimaric acid	ResinAcid		
Acenaphthene	Acenaphthene	PAH		83329
Acenaphthylene	Acenaphthylene	PAH		208968
Acetochlor	Acetochlor	Herbicides		34256821
Acetone	Acetone	Volatiles		67641
Acetonitrile	Acetonitrile	Volatiles		75058
Acetophenone	Acetophenone	SemiVolati	1-Phenylethanone	98862
Acidity_CaCO3	Acidity as calcium carbonate	PhysChem		
Acidity_H	Acidity as hydrogen ion	PhysChem		
Acrolein	Acrolein	Volatiles		107028
Acrylonitrile	Acrylonitrile	Volatiles		107131
AFDW	Ash-free dry weight	PhysChem		
AgencyAnalyzing	Agency analyzing sample			
AgencyCollecting	Agency collecting sample			
Alachlor	Alachlor	Herbicides	Metachlor	15972608
Aldrin	Aldrin	Pesticides		309002
Alkalinity	Alkalinity	PhysChem		
Alkalinity_Ph	Phenolphthalein Alkalinity	PhysChem		
AllylChloride	Allyl chloride	Volatiles	3-Chloropropene	107051
alphaBHC	alpha-Benzenhexachloride	Pesticides	alpha-Hexachlorocyclohexane; alpha-HCH; alpha-BHC; alpha-Benzohexachloride	319846
Aluminum	Aluminum	Metals		7429905
Ammonia	Ammonia	Nutrients		7664417
Ammonia_N	Ammonia as Nitrogen	Nutrients		
Ammonia_union	Ammonia, unionized	Nutrients		
Ammonia_union_N	Ammonia, unionized as Nitrogen	Nutrients		
AmmPlusOrgN	Ammonia plus organic nitrogen	Nutrients		
ANC_CaCO3	Acid neutralizing capacity	PhysChem		
Aniline	Aniline	Volatiles		62533
Anthracene	Anthracene	PAH		120127
Antimony	Antimony	Metals	Sb	7440360
ArachAcid	Arachidic Acid	FatAcid		
Aramite	Aramite	Pesticides		140578
Aroclor 1016	Aroclor 1016	PCBs		12674112
Aroclor 1210	Aroclor 1210	PCBs		147601874
Aroclor 1216	Aroclor 1216	PCBs		151820278
Aroclor 1221	Aroclor 1221	PCBs		11104282
Aroclor 1231	Aroclor 1231	PCBs		37234405

Aroclor 1232	Aroclor 1232	PCBs		11141165
Aroclor 1240	Aroclor 1240	PCBs		71328897
Aroclor 1242	Aroclor 1242	PCBs		53469219
Aroclor 1248	Aroclor 1248	PCBs		12672296
Aroclor 1250	Aroclor 1250	PCBs		165245512
Aroclor 1252	Aroclor 1252	PCBs		89577786
Aroclor 1254	Aroclor 1254	PCBs		11097691
Aroclor 1260	Aroclor 1260	PCBs		11096825
Aroclor 1262	Aroclor 1262	PCBs		37324235
Aroclor 1268	Aroclor 1268	PCBs		11100144
Aroclor_1254_60	Aroclor 1254/1260	PCBs		
Arsenic	Arsenic	Metals	As	7440382
ASB_cation	ASB + Cation	PhysChem		
Asbestos	Asbestos	Asbestos		1332214
Atrazine	Atrazine	Pesticides		1912249
Azobenzene	Azobenzene	Volatiles	Diphenyldiazene; 1,2-Diphenyldiazene	103333
Barium	Barium	Metals	Ba	7440393
Battery voltage	Battery voltage			
Be7	Beryllium-7	Radionuc	Beryllium, isotope of mass 7; 7Be	13966024
BehenAcid	Behenic Acid	FatAcid		
Benfluralin	Benfluralin	Herbicides		1861401
Benzaldehyde	Benzaldehyde	SemiVolati		100527
Benzene	Benzene	Volatiles		71432
Benzidine	Benzidine	SemiVolati		92875
Benzoic acid	Benzoic acid	SemiVolati		65850
Benzyl alcohol	Benzyl alcohol	SemiVolati		100516
Beryllium	Beryllium	Metals	Be	7440417
betaBHC	beta-Benzenhexachloride	Pesticides	beta-Hexachlorocyclohexane; beta-HCH; beta-BHC; beta-Benzoehachloride	319857
Bicarbonate	Bicarbonate	PhysChem		71523
Bismuth	Bismuth	Metals	Bi	7440699
BOD	Biochemical oxygen demand	PhysChem		
Boron	Boron	Metals	B	7440428
BP	Barometric pressure			
BrBenzene	Bromobenzene	Volatiles	Phenyl bromide	108861
BrClMeth	Bromochloromethane	Volatiles	Chlorobromomethane; Methylene chlorobromide	74975
BrDiClMeth	Bromodichloromethane	Volatiles		75274
BrMeth	Bromomethane	Volatiles		74839
Bromide	Bromide ion	Halogens		24959679
Bromine	Bromine	Halogens	Br	7726956
Bromoform	Bromoform	Volatiles		75252
bs2ClEtOxEther	Bis(2-chloroethyl)ether	SemiVolati		111444
bs2ClEtOxMethane	bis(2-Chloroethoxy)methane	SemiVolati		111911
bs2ClIsoProEther	Bis(2-chloroisopropyl) ether	Volatiles	2,2'-Oxybis(2-chloropropane); Dichloroisopropyl ether	39638329
bs2EtHxAdipate	Bis(2-ethylhexyl) adipate	Volatiles	Bis(2-ethylhexyl)hexanedioate; Dioctyl adipate; bis(2-ethylhexyl) ester Hexanedioic acid	103231
bs2EtHxPhthalate	bis(2-Ethylhexyl)phthalate	SemiVolati		117817
BulkDensity	Bulk Density	PhysChem		
Butylate	Butylate	Herbicides	Diisocarb	2008415
BzAAnthracene	Benzo[a]anthracene	PAH		56553
BzAPyrene	Benzo[a]pyrene	PAH		50328
BzBFluoranthene	Benzo[b]fluoranthene	PAH		205992
BzGhiPerylene	Benzo[g,h,i]perylene	PAH		191242
BzKFluoranthene	Benzo[k]fluoranthene	PAH		207089
BzNButPhthalate	Benzyl n-butyl phthalate	SemiVolati	Butyl benzyl phthalate	85687
CacodylicAc	Cacydylc acid	Pesticides	ansar 138; Arsan; Dimethylarsenic acid; Dimethylarsinic acid; Dimethylarsonic Acid; Bolate; Bolls; cacodylic acid; Cacodylic acid ; Cacodylic acid, free acid; chexmate; DMAA; Erase; hydroxydimethylarsine oxide; Moncide; phytar; rad-e-cat 25; Rad-E-Cate 35; Scotts Spot Grass and	75605
Cadmium	Cadmium	Metals	Cd	7440439
Calcium	Calcium	Metals	Ca	7440702
Caprolactam	Caprolactam	SemiVolati		105602
Carb_hardness	Hardness as CaCO3	PhysChem		

Carbaryl	Carbaryl	Pesticides	Carbamic acid	63252
Carbazole	Carbazole	Pesticides		86748
Carbofuran	Carbofuran	Pesticides		1563662
Carbon_inorg	Inorganic carbon	PhysChem		
Carbon_org	Organic carbon	PhysChem		
Carbon_total	Carbon_total	PhysChem		
Carbonate	Carbonate	PhysChem		3812326
CarbonDisulfide	Carbon disulfide	Volatiles		75150
CarbonTetrCl	Carbon Tetrachloride	Volatiles		56235
Carbophenothion	Carbophenothion	Pesticides		786196
CatExchangeCap	Cation Exchange Capacity	PhysChem		
Cerium	Cerium	Lanthanide	Ce	7440451
Cesium	Cesium	Metals	Cs	7440462
Chlordane_T	Chlordane (technical)	Pesticides		12789036
Chloride	Chloride ion	Halogens		
Chlorine	Chlorine	Halogens	Cl	7782505
Chlorobenzilate	Chlorobenzilate	SemiVolati		510156
Chloroform	Chloroform	Volatiles		67663
Chlorophyll_a	Chlorophyll a	Biological		
Chlorophyll_b	Chlorophyll b	Biological		
Chloroprene	Chloroprene	SemiVolati		126998
Chlorpyrifos	Chlorpyrifos	Pesticides		2921882
Chromium	Chromium	Metals	Cr	7440473
Chrysene	Chrysene	PAH		218019
CIAT	2-Chloro-4-isopropylamino-6-amino-s-triazine	Pesticides	Deethyl atrazine	6190654
cis12DiClEthe	cis-1,2-Dichloroethene	Volatiles		156592
cis13DiClPrope	cis-1,3-Dichloropropene	Volatiles		10061015
cisChlordane	cis-Chlordane	Pesticides	alpha-Chlordane;(1alpha,2alpha,3alpha,4beta,7beta,7aalpha)-1,2,4,5,6,7,8,8-Octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene	5103719
cisNonachlor	cis-Nonachlor	Pesticides		5103731
cisPermethrin	cis-Permethrin	Pesticides		61949766
Clay	Clay	GrainSize	E-14612	
ClBenzene	Chlorobenzene	Volatiles		108907
ClDehydroAbiet	Chlorodehydroabietic acid (non-specific)	ResinAcid		
ClEthane	Chloroethane	Volatiles		75003
ClMeth	Chloromethane	Volatiles		74873
CO2	Carbon dioxide	PhysChem		
CoarseSand	Coarse sand	GrainSize	E-15006	
Cobalt	Cobalt	Metals	Co	7440484
COD	Chemical Oxygen Demand	PhysChem		
Colloids	Colloids	PhysChem		E-15001
Color	Color			
Conductivity	Conductivity			
Copper	Copper	Metals	Cu	7440508
Cr_VI	Chromium (VI)	Metals		18540299
Cs137	Cesium-137	Radionuc	Cesium, isotope of mass 137; 137Cs	10045973
Cs137_2sigma	Cesium-137 2-sigma combined uncertainty	Radionuc		
Cyanazine	Cyanazine	Herbicides		21725462
Cyanide	Cyanide	PhysChem		
DCPA	Dimethyl tetrachloroterephthalate	Herbicides	Dacthal	1861321
Decane	Decane	Petroleum		124185
DehydroAbietic	Dehydroabietic Acid	ResinAcid		
deltaBHC	delta-Benzenhexachloride	Pesticides	delta-Hexachlorocyclohexane; delta-HCH; delta-BHC; delta-Benzohexachloride	319868
Demeton	Demeton	Pesticides		8065483
Diallate	Diallate	Herbicides		2303164
Diazinon	Diazinon	Pesticides		333415
Dibenzofuran	Dibenzofuran	PAH		132649
DiBrClMeth	Dibromochloromethane	Volatiles		124481
DiBrFlMeth	Dibromofluoromethane	Volatiles		1868537
DiBrMeth	Dibromomethane	Volatiles		74953
Dibutyltin	Dibutyltin	Organomet	Di-n-butyltin hydride; Dibutylstannane	1002535
DiBzAhAnthracene	Dibenzo[a,h]anthracene	PAH		53703

DiBzAjAcridine	Dibenz(a,j)acridine	PAH	Dibenzacridine; 7-Azadibenz(a,j)anthracene; 3,4,6,7-Dinaphthacridine	224420
Dichlorprop	Dichlorprop	Herbicides	2,4-DP	120365
DiClBiphenyls	Dichlorobiphenyl homologs	PCBs		25512429
DiClDehydroAbiet	Dichlorodehydroabiestic Acid	ResinAcid		
DiClDiFiMeth	Dichlorodifluoromethane	Volatiles		75718
Dieldrin	Dieldrin	Pesticides		60571
DiEtPhthalate	Diethyl phthalate	SemiVolati		84662
DiHydroIsopimar	Dihydroisopimaric Acid	ResinAcid		
DiMePhthalate	Dimethyl phthalate	SemiVolati		131113
Dimethoate	Dimethoate	Pesticides		60515
DiNButPhthalate	Di-n-butyl phthalate	SemiVolati		84742
DiNOctPhthalate	Di-n-octylphthalate	SemiVolati		117840
DiPhenHydrazine	Diphenylhydrazine	SemiVolati		38622183
Diphenylamine	Diphenylamine	SemiVolati		122394
Dissolved oxygen	Dissolved oxygen	PhysChem		
Disulfoton	Disulfoton	Pesticides		298044
DRH	Diesel Range Hydrocarbons (~C12-C28)	Petroleum		
Dysprosium	Dysprosium	Lanthanide	Dy	7429916
Ecoli	Escherichia coli	Biological		
ElecConductivity	Electrical Conductivity	PhysChem		
Endosulfan_I	Endosulfan I	Pesticides	alpha-Endosulfan	959988
Endosulfan_II	Endosulfan II	Pesticides	beta-Endosulfan	33213659
EndosulfanSulf	Endosulfan sulfate	Pesticides		1031078
Endrin	Endrin	Pesticides		72208
Endrin aldehyde	Endrin aldehyde	Pesticides		7421934
Endrin ketone	Endrin ketone	Pesticides		53494705
Enterococci	Enterococci			
EPH_C10-C19	Extractable Petroleum Hydrocarbons with a chain length from C10 to C19	Petroleum		
EPH_C19-C32	Extractable Petroleum Hydrocarbons with a chain length from C19 to C32	Petroleum		
EPTC	Ethyl di-n-propylthiolcarbamate	Pesticides		759944
Erbium	Erbium	Lanthanide	Er	7440520
Ethalfuralin	Ethalfuralin	Herbicides		55283686
Ethion	Ethion	Pesticides		563122
Ethoprop	Ethoprop	Pesticides		13194484
Ethylbenzene	Ethylbenzene	Volatiles		100414
EthylMethacrylat	Ethyl methacrylate	SemiVolati		97632
EthylMethaneSul	Ethyl methanesulfonate	Volatiles	Ethyl methanesulphonate; Methanesulfonic acid, ethyl ester	62500
Europium	Europium	Metals	Eu	7440531
Famphur	Famphur	Pesticides		52857
Fecal_coliform	Fecal coliform	Biological		
Fecal_strep	Fecal streptococci	Biological		
Fine_Sand	Fine Sand	GrainSize		E-15005
Fines	Fines	GrainSize		
Fluoranth-d10	Fluoranthene-d10	PAH	deuterated fluoranthene	93951690
Fluoranthene	Fluoranthene	PAH		206440
Fluorene	Fluorene	PAH		86737
Fluorene-d10	Fluorene-d10	PAH	9H-Fluorene-1,2,3,4,5,6,7,8,9,9-d10	81103799
Fluoride	Fluoride	PhysChem		
Fluorine	Fluorine	Halogens	F	7782414
Fonofos	Fonofos	Pesticides		944229
G_alpha_Radio	Gross alpha radioactivity	PhysChem		
G_beta_Radio	Gross beta radioactivity	PhysChem		
Gadolinium	Gadolinium	Lanthanide	Gd	7440542
Gallium	Gallium	Metals	Ga	7440553
gammaBHC	gamma-Benzenhexachloride	Pesticides	gamma-Hexachlorocyclohexane; gamma-HCH; gamma-BHC; gamma-Benzo hexachloride; Lindane	58899
gammaChlordane	gamma-Chlordane	Pesticides	2,2,4,5,6,7,8,8-Octachloro-2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene	5566347
Germanium	Germanium	Metals	Ge	7440564
Gold	Gold	Metals	Au	7440575
Gravel	Gravel	GrainSize		E-14613
GRH	Gasoline Range Hydrocarbons (~C6-C12)	Petroleum		
GsGt9phi	TOTAL SEDIMENT PARTICLE SIZE %COARSER THAN 9.	GrainSize		

GsLt.002mm	Particles < 0.002 millimeters	GrainSize		
GsLt.004mm	Particles < 0.004 millimeters	GrainSize		
GsLt.008mm	Particles < 0.008 millimeters	GrainSize		
GsLt.016mm	Particles < 0.016 millimeters	GrainSize		
GsLt.031mm	Particles < 0.031 millimeters	GrainSize		
GsLt.125mm	Particles < 0.125 millimeters	GrainSize		
GsLt.25mm	Particles < 0.25 millimeters	GrainSize		
GsLt.5mm	Particles < 0.5 millimeters	GrainSize		
GsLt1mm	Particles < 1 millimeter	GrainSize		
GsLt2mm	Particles < 2 millimeters	GrainSize		
Guthion	Guthion	Pesticides	Azinphos-methyl; Azinphosmethyl; O,O-dimethyl S-((4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl) ester	
H_ion	Hydrogen ion	PhysChem	Phosphorodithioic acid	86500
H2S	Hydrogen sulfide	PhysChem		
Hafnium	Hafnium	Metals	Hf	7440586
Hardness_CaCO3	Hardness as CaCO3	PhysChem		
HCH_TechGrade	Hexachlorocyclohexane-tech grade	Pesticides		608731
HepClBiphenyls	Heptachlorobiphenyl homologs	PCBs		28655712
HEPH	Heavy Extractable Petroleum Hydrocarbons	Petroleum		
Heptachlor	Heptachlor	Pesticides		76448
HeptachlorEpox	Heptachlor epoxide	Pesticides		1024573
Hexachloroethane	Hexachloroethane	SemiVolati		67721
Hexachlorophene	Hexachlorophene	SemiVolati		70304
Hexane	Hexane	Petroleum		110543
HexClBiphenyls	Hexachlorobiphenyl homologs	PCBs		26601649
Holmium	Holmium	Lanthanide	Ho	7440600
HPAH	High molecular weight Polycyclic Aromatic Hydrocarbons	PAH		
HpClDiBzDioxin	Heptachlorodibenzo-p-dioxin (Total)	DioxinFura		37871004
HpClDiBzFuran	Heptachlorodibenzo-p-furan (Total)	DioxinFura		38998753
HxClBenzene	Hexachlorobenzene	SemiVolati		118741
HxClButadiene	Hexachlorobutadiene	SemiVolati		87683
HxClycPenDiene	Hexachlorocyclopentadiene	SemiVolati	Perchlorocyclopentadiene; 1,2,3,4,5,5-Hexachloro-1,3-cyclopentadiene; Perchloro-1,3-cyclopentadiene	77474
HxClDiBzDioxin	Hexachlorodibenzo-p-dioxin (Total)	DioxinFura		34465468
HxClDiBzFuran	Hexachlorodibenzo-p-furan (Total)	DioxinFura		55684941
HxClPropene	Hexachloropropene	Volatiles	Perchloropropene; Hexachloropropylene; Perchloropropylene	1888717
HydrogenSulfide	Hydrogen sulfide	Volatiles		7783064
Ind123CdPyrene	Indeno[1,2,3-cd]pyrene	PAH		193395
Indium	Indium	Metals	In	
Iodomethane	Iodomethane	Volatiles	Methyl iodide	74884
Iron	Iron	Metals	Fe	7439896
IsobutylAlcohol	Isobutyl alcohol	Volatiles	2-Methyl-1-propanol	78831
Isodrin	Isodrin	Pesticides		465736
Isophorone	Isophorone	SemiVolati		78591
IsopimaricAcid	Isopimaric Acid	ResinAcid		
IsoProBenzene	Isopropylbenzene	Volatiles	Cumene; (1-Methylethyl)benzene;	98828
Isosafrole	Isosafrole	Pesticides		120581
Kepone	Kepone	Pesticides		143500
Lanthanum	Lanthanum	Lanthanide	La	7439910
LauricAcid	Lauric Acid	FatAcid		
Lead	Lead	Metals	Pb	7439921
LEPH	Light Extractable Petroleum Hydrocarbons	Petroleum		
LignocerAcid	Lignoceric Acid	FatAcid		
LinoleicAcid	Linoleic Acid	FatAcid		
LinolenicAcid	Linolenic Acid	FatAcid		
Linuron	Linuron	Pesticides		330552
Lipid	Lipid	PhysChem		
Lithium	Lithium	Metals	Li	7439932
LOI	Loss on Ignition	PhysChem		
LPAH	Low molecular weight Polycyclic Aromatic Hydrocarbons	PAH		
Lutetium	Lutetium	Metals	Lu	7439943
Magnesium	Magnesium	Metals	Mg	7439954

Malathion	Malathion	Pesticides		121755
Manganese	Manganese	Metals	Mn	7439965
MeArsonicAc	Methylarsonic acid	Pesticides	MAA; Methane arsonic acid; Methylarsonic acid; Monomethylarsonic acid	124583
Med. Sand	Med. Sand	GrainSize		E-15004
MEK	2-Butanone	Volatiles		78933
Mercury	Mercury	Metals	Hg	7439976
Metal_PEC_sum	Sum of consensus PEC ratios for metals, per MacDonald et al. 2000			
MetaParaXylene	m,p-Xylene	Volatiles	3,4-Xylene	179601231
metaXylene	m-Xylene	Volatiles	3-Xylene; 1,3-Dimethylbenzene	108383
MethAcryloNitrit	Methacrylonitrile	Volatiles		126987
Methapyrilene	Methapyrilene	Volatiles		91805
Methoxychlor	Methoxychlor	Pesticides	p,p'-Methoxychlor; 4,4'-Methoxychlor; 1,1'-(2,2,2-Trichloroethylidene)bis(4-methoxybenzene)	72435
MethyleneCl	Methylene Chloride	Volatiles	Dichloromethane	75092
MethylMercury	Methyl mercury	Volatiles		22967926
MethylMethacryla	Methyl methacrylate	Volatiles		80626
MethylMethaneSul	Methyl methanesulfonate	Volatiles		66273
MethylParathion	Methyl parathion	Pesticides		298000
MethylTrithion	Methyl trithion	Pesticides		953173
Metolachlor	Metolachlor	Herbicides		51218452
Metribuzin	Metribuzin	Herbicides		21087649
Mirex	Mirex	Pesticides		2385855
Moisture	Moisture	PhysChem		
Molinate	Molinate	Pesticides		2212671
Molybdenum	Molybdenum	Metals	Mo	7439987
Monobutyltin	Monobutyltin	Organomet	n-Butyltin hydride; Butylstannane	2406657
MonoClBiphenyls	Monochlorobiphenyl homologs	PCBs		27323188
MTBE	Methyl tert-butyl ether	Volatiles	Methyl t-butyl ether; t-Butyl methyl ether; 2-Methoxy-2-methylpropane; 2-Methyl-2-methoxypropane	1634044
MyristicAcid	Myristic Acid	FatAcid		
NaFractionCat	Sodium fraction of cations in equivalents of major cations	PhysChem		
Naphthalene	Naphthalene	PAH		91203
NaPlusK	Sodium plus potassium	PhysChem		
Napropamide	Napropamide	Herbicides		15299997
nButylbenzene	n-Butylbenzene	Volatiles	1-Butylbenzene; 1-Phenylbutane; Butylbenzene	104518
NeoaibeticAcid	Neoaibetic Acid	ResinAcid		
Neodymium	Neodymium	Lanthanide	Nd	7440008
Nickel	Nickel	Metals	Ni	7440020
Niobium	Niobium	Metals	Nb	7440031
Nitrate	Nitrate	Nutrients		
Nitrate_N	Nitrate as nitrogen	Nutrients		
Nitrite	Nitrite	Nutrients		
Nitrite_N	Nitrite as nitrogen	Nutrients		
Nitrite-Nitrate	Nitrate plus nitrite	Nutrients		
Nitrobenzene	Nitrobenzene	SemiVolati		98953
Nitrobenzene-d5	Nitrobenzene-d5	Volatiles	Nitro(2H5)benzene	4165600
Nitrogen	Nitrogen	PhysChem	N	7727379
Nitrogen_org	Organic nitrogen	Nutrients		
NNitDiMeAmine	N-Nitrosodimethylamine	SemiVolati		62759
NNitDiNPropAmine	N-Nitrosodi-n-propylamine	SemiVolati		621647
NNitDiPhenAmine	N-Nitrosodiphenylamine	SemiVolati		86306
NnitroDibutyl	N-nitroso-dibutylamine	SemiVolati		924163
NnitroDiethyl	N-nitroso diethylamine	SemiVolati		55185
NNitroMorph	N-Nitrosomorpholine	SemiVolati		59892
NNitroPiperIdine	N-nitrosopiperidine	SemiVolati		100754
NNitroPyroLidine	N-nitrosopyrrolidine	SemiVolati		930552
NNitrosMethEthyl	N-Nitrosomethylethylamine	SemiVolati		10595956
NonadecAcid	Nonadecanoic acid			646300
NonAsbestos_%Fib	Non-Asbestos Percent Fibrous	Asbestos		
NonAsbestos_%Non	Non-Asbestos Percent Non-Fibrous	Asbestos		
NonC_Hardness	Noncarbonate hardness	PhysChem		
NonClBiphenyls	Nonachlorobiphenyl homologs	PCBs		53742077

Nonylphenol	Nonylphenol	SemiVolati		1044051
nPropylBenzene	n-Propylbenzene	Volatiles	1-Propylbenzene; 1-Phenylpropane; Propylbenzene	103651
NS_EPA2005TissAs	Unspecified analyte from U.S. EPA 2005 analysis of tissue arsenic species			
OctClBiphenyls	Octachlorobiphenyl homologs	PCBs		55722264
OctClDiBzDioxin	Octachlorodibenzo-p-dioxin	DioxinFura		3268879
OctClDiBzFuran	Octachlorodibenzo-p-furan	DioxinFura		39001020
OleicAcid	Oleic Acid	FatAcid		
OOOTriethylPhosp	O,O,O-Triethylphosphorothioate	Pesticides		126681
OrganicMatter	Organic Matter	PhysChem		
ORH	Oil Range Hydrocarbons (~C28-C35)	Petroleum		
Orthophosphate	Orthophosphate	Nutrients		
Orthophosphate_P	Orthophosphate as phosphorus	Nutrients		
orthoXylene	o-Xylene	Volatiles	2-Xylene; 1,2-Dimethylbenzene	95476
oToluidine	o-Toluidine	Volatiles		95534
Oxychlorthane	Oxychlorthane	Pesticides		27304138
PalmiticAcid	Palmitic Acid	FatAcid		
PalusticAcid	Palustic Acid	ResinAcid		
PalustricAcid	Palustric acid			1945535
Parathion	Parathion	Pesticides		56382
paraXylene	p-Xylene	Volatiles	4-Xylene; 1,4-Dimethylbenzene	106423
ParticleDensity	Particle Density	PhysChem		
Pb210	Lead-210	Radionuc	Lead, isotope of mass 210; 210Pb	14255040
PBDE_coel119+120	Coelution of PBDE 119 and 120	PBDE		
PBDE_coel12+13	Coelution of PBDE 12 and 13	PBDE		
PBDE_coel138+166	Coelution of PBDE 138 and 166	PBDE		
PBDE_coel17+25	Coelution of PBDE 17 and 25	PBDE		
PBDE_coel28+33	Coelution of PBDE 28 and 33	PBDE		
PBDE_coel8+11	Coelution of PBDE 8 and 11	PBDE		
PBDE_cong_1	2-Bromodiphenyl ether	PBDE		
PBDE_cong_10	2,6-Dibromodiphenyl ether	PBDE		
PBDE_cong_100	2,2',4,4',6-Pentabromodiphenyl ether	PBDE		
PBDE_cong_101	2,2',4,5,5'-Pentabromodiphenyl ether	PBDE		
PBDE_cong_102	2,2',4,5,6'-Pentabromodiphenyl ether	PBDE		
PBDE_cong_103	2,2',4,5,6-Pentabromodiphenyl ether	PBDE		
PBDE_cong_104	2,2',4,6,6'-Pentabromodiphenyl ether	PBDE		
PBDE_cong_105	2,3,3',4,4'-Pentabromodiphenyl ether	PBDE		
PBDE_cong_106	2,3,3',4,5-Pentabromodiphenyl ether	PBDE		
PBDE_cong_107	2,3,3',4',5-Pentabromodiphenyl ether	PBDE		
PBDE_cong_108	2,3,3',4,5'-Pentabromodiphenyl ether	PBDE		
PBDE_cong_109	2,3,3',4,6-Pentabromodiphenyl ether	PBDE		
PBDE_cong_11	3,3'-Dibromodiphenyl ether	PBDE		
PBDE_cong_110	2,3,3',4',6-Pentabromodiphenyl ether	PBDE		
PBDE_cong_111	2,3,3',5,5'-Pentabromodiphenyl ether	PBDE		
PBDE_cong_112	2,3,3',5,6-Pentabromodiphenyl ether	PBDE		
PBDE_cong_113	2,3,3',5',6-Pentabromodiphenyl ether	PBDE		
PBDE_cong_114	2,3,4,4',5-Pentabromodiphenyl ether	PBDE		
PBDE_cong_115	2,3,4,4',6-Pentabromodiphenyl ether	PBDE		
PBDE_cong_116	2,3,4,5,6-Pentabromodiphenyl ether	PBDE		
PBDE_cong_117	2,3,4',5,6-Pentabromodiphenyl ether	PBDE		
PBDE_cong_118	2,3',4,4',5-Pentabromodiphenyl ether	PBDE		
PBDE_cong_119	2,3',4,4',6-Pentabromodiphenyl ether	PBDE		
PBDE_cong_12	3,4-Dibromodiphenyl ether	PBDE		
PBDE_cong_120	2,3',4,5,5'-Pentabromodiphenyl ether	PBDE		
PBDE_cong_121	2,3',4,5,6-Pentabromodiphenyl ether	PBDE		
PBDE_cong_122	2',3,3',4,5-Pentabromodiphenyl ether	PBDE		
PBDE_cong_123	2',3,4,4',5-Pentabromodiphenyl ether	PBDE		
PBDE_cong_124	2',3,4,5,5'-Pentabromodiphenyl ether	PBDE		
PBDE_cong_125	2',3,4,5,6'-Pentabromodiphenyl ether	PBDE		
PBDE_cong_126	3,3',4,4',5-Pentabromodiphenyl ether	PBDE		
PBDE_cong_127	3,3',4,5,5'-Pentabromodiphenyl ether	PBDE		
PBDE_cong_128	2,2',3,3',4,4'-Hexabromodiphenyl ether	PBDE		
PBDE_cong_129	2,2',3,3',4,5-Hexabromodiphenyl ether	PBDE		

PBDE_cong_13	3,4'-Dibromodiphenyl ether	PBDE
PBDE_cong_130	2,2',3,3',4,5'-Hexabromodiphenyl ether	PBDE
PBDE_cong_131	2,2',3,3',4,6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_132	2,2',3,3',4,6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_133	2,2',3,3',5,5'-Hexabromodiphenyl ether	PBDE
PBDE_cong_134	2,2',3,3',5,6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_135	2,2',3,3',5,6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_136	2,2',3,3',6,6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_137	2,2',3,4,4',5'-Hexabromodiphenyl ether	PBDE
PBDE_cong_138	2,2',3,4,4',5'-Hexabromodiphenyl ether	PBDE
PBDE_cong_139	2,2',3,4,4',6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_14	3,5-Dibromodiphenyl ether	PBDE
PBDE_cong_140	2,2',3,4,4',6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_141	2,2',3,4,5,5'-Hexabromodiphenyl ether	PBDE
PBDE_cong_142	2,2',3,4,5,6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_143	2,2',3,4,5,6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_144	2,2',3,4,5',6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_145	2,2',3,4,6,6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_146	2,2',3,4',5,5'-Hexabromodiphenyl ether	PBDE
PBDE_cong_147	2,2',3,4',5,6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_148	2,2',3,4',5,6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_149	2,2',3,4',5',6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_15	4,4'-Dibromodiphenyl ether	PBDE
PBDE_cong_150	2,2',3,4',6,6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_151	2,2',3,5,5',6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_152	2,2',3,5,6,6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_153	2,2',4,4',5,5'-Hexabromodiphenyl ether	PBDE
PBDE_cong_154	2,2',4,4',5',6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_155	2,2',4,4',6,6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_156	2,3,3',4,4',5'-Hexabromodiphenyl ether	PBDE
PBDE_cong_157	2,3,3',4,4',5'-Hexabromodiphenyl ether	PBDE
PBDE_cong_158	2,3,3',4,4',6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_159	2,3,3',4,5,5'-Hexabromodiphenyl ether	PBDE
PBDE_cong_16	2,2',3-Tribromodiphenyl ether	PBDE
PBDE_cong_160	2,3,3',4,5,6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_161	2,3,3',4,5',6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_162	2,3,3',4',5,5'-Hexabromodiphenyl ether	PBDE
PBDE_cong_163	2,3,3',4',5,6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_164	2,3,3',4',5',6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_165	2,3,3',5,5',6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_166	2,3,4,4',5,6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_167	2,3',4,4',5,5'-Hexabromodiphenyl ether	PBDE
PBDE_cong_168	2,3',4,4',5',6'-Hexabromodiphenyl ether	PBDE
PBDE_cong_169	3,3',4,4',5,5'-Hexabromodiphenyl ether	PBDE
PBDE_cong_17	2,2',4-Tribromodiphenyl ether	PBDE
PBDE_cong_170	2,2',3,3',4,4',5'-Heptabromodiphenyl ether	PBDE
PBDE_cong_171	2,2',3,3',4,4',6'-Heptabromodiphenyl ether	PBDE
PBDE_cong_172	2,2',3,3',4,5,5'-Heptabromodiphenyl ether	PBDE
PBDE_cong_173	2,2',3,3',4,5,6'-Heptabromodiphenyl ether	PBDE
PBDE_cong_174	2,2',3,3',4,5,6'-Heptabromodiphenyl ether	PBDE
PBDE_cong_175	2,2',3,3',4,5',6'-Heptabromodiphenyl ether	PBDE
PBDE_cong_176	2,2',3,3',4,6,6'-Heptabromodiphenyl ether	PBDE
PBDE_cong_177	2,2',3,3',4',5,6'-Heptabromodiphenyl ether	PBDE
PBDE_cong_178	2,2',3,3',5,5',6'-Heptabromodiphenyl ether	PBDE
PBDE_cong_179	2,2',3,3',5,6,6'-Heptabromodiphenyl ether	PBDE
PBDE_cong_18	2,2',5-Tribromodiphenyl ether	PBDE
PBDE_cong_180	2,2',3,4,4',5,5'-Heptabromodiphenyl ether	PBDE
PBDE_cong_181	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	PBDE
PBDE_cong_182	2,2',3,4,4',5,6'-Heptabromodiphenyl ether	PBDE
PBDE_cong_183	2,2',3,4,4',5',6'-Heptabromodiphenyl ether	PBDE
PBDE_cong_184	2,2',3,4,4',6,6'-Heptabromodiphenyl ether	PBDE
PBDE_cong_185	2,2',3,4,5,5',6'-Heptabromodiphenyl ether	PBDE

PBDE_cong_186	2,2',3,4,5,6,6'-Heptabromodiphenyl ether	PBDE
PBDE_cong_187	2,2',3,4',5,5',6-Heptabromodiphenyl ether	PBDE
PBDE_cong_188	2,2',3,4',5,6,6'-Heptabromodiphenyl ether	PBDE
PBDE_cong_189	2,3,3',4,4',5,5'-Heptabromodiphenyl ether	PBDE
PBDE_cong_19	2,2',6-Tribromodiphenyl ether	PBDE
PBDE_cong_190	2,3,3',4,4',5,6-Heptabromodiphenyl ether	PBDE
PBDE_cong_191	2,3,3',4,4',5',6-Heptabromodiphenyl ether	PBDE
PBDE_cong_192	2,3,3',4,5,5',6-Heptabromodiphenyl ether	PBDE
PBDE_cong_193	2,3,3',4',5,5',6-Heptabromodiphenyl ether	PBDE
PBDE_cong_194	2,2',3,3',4,4',5,5'-Octabromodiphenyl ether	PBDE
PBDE_cong_195	2,2',3,3',4,4',5,6-Octabromodiphenyl ether	PBDE
PBDE_cong_196	2,2',3,3',4,4',5,6-Octabromodiphenyl ether	PBDE
PBDE_cong_197	2,2',3,3',4,4',6,6'-Octabromodiphenyl ether	PBDE
PBDE_cong_198	2,2',3,3',4,5,5',6-Octabromodiphenyl ether	PBDE
PBDE_cong_199	2,2',3,3',4,5,5',6'-Octabromodiphenyl ether	PBDE
PBDE_cong_2	3-Bromodiphenyl ether	PBDE
PBDE_cong_20	2,3,3'-Tribromodiphenyl ether	PBDE
PBDE_cong_200	2,2',3,3',4,5,6,6'-Octabromodiphenyl ether	PBDE
PBDE_cong_201	2,2',3,3',4,5',6,6'-Octabromodiphenyl ether	PBDE
PBDE_cong_202	2,2',3,3',5,5',6,6'-Octabromodiphenyl ether	PBDE
PBDE_cong_203	2,2',3,4,4',5,5',6-Octabromodiphenyl ether	PBDE
PBDE_cong_204	2,2',3,4,4',5,6,6'-Octabromodiphenyl ether	PBDE
PBDE_cong_205	2,3,3',4,4',5,5',6-Octabromodiphenyl ether	PBDE
PBDE_cong_206	2,2',3,3',4,4',5,5',6-Nonabromodiphenyl ether	PBDE
PBDE_cong_207	2,2',3,3',4,4',5,6,6'-Nonabromodiphenyl ether	PBDE
PBDE_cong_208	2,2',3,3',4,5,5',6'-Nonabromodiphenyl ether	PBDE
PBDE_cong_209	Decabromodiphenyl ether	PBDE
PBDE_cong_21	2,3,4-Tribromodiphenyl ether	PBDE
PBDE_cong_22	2,3,4'-Tribromodiphenyl ether	PBDE
PBDE_cong_23	2,3,5-Tribromodiphenyl ether	PBDE
PBDE_cong_24	2,3,6-Tribromodiphenyl ether	PBDE
PBDE_cong_25	2,3',4-Tribromodiphenyl ether	PBDE
PBDE_cong_26	2,3',5-Tribromodiphenyl ether	PBDE
PBDE_cong_27	2,3',6-Tribromodiphenyl ether	PBDE
PBDE_cong_28	2,4,4'-Tribromodiphenyl ether	PBDE
PBDE_cong_29	2,4,5-Tribromodiphenyl ether	PBDE
PBDE_cong_3	4-Bromodiphenyl ether	PBDE
PBDE_cong_30	2,4,6-Tribromodiphenyl ether	PBDE
PBDE_cong_31	2,4',5-Tribromodiphenyl ether	PBDE
PBDE_cong_32	2,4',6-Tribromodiphenyl ether	PBDE
PBDE_cong_33	2',3,4-Tribromodiphenyl ether	PBDE
PBDE_cong_34	2',3,5-Tribromodiphenyl ether	PBDE
PBDE_cong_35	3,3',4-Tribromodiphenyl ether	PBDE
PBDE_cong_36	3,3',5-Tribromodiphenyl ether	PBDE
PBDE_cong_37	3,4,4'-Tribromodiphenyl ether	PBDE
PBDE_cong_38	3,4,5-Tribromodiphenyl ether	PBDE
PBDE_cong_39	3,4',5-Tribromodiphenyl ether	PBDE
PBDE_cong_4	2,2'-Dibromodiphenyl ether	PBDE
PBDE_cong_40	2,2',3,3'-Tetrabromodiphenyl ether	PBDE
PBDE_cong_41	2,2',3,4-Tetrabromodiphenyl ether	PBDE
PBDE_cong_42	2,2',3,4'-Tetrabromodiphenyl ether	PBDE
PBDE_cong_43	2,2',3,5-Tetrabromodiphenyl ether	PBDE
PBDE_cong_44	2,2',3,5'-Tetrabromodiphenyl ether	PBDE
PBDE_cong_45	2,2',3,6-Tetrabromodiphenyl ether	PBDE
PBDE_cong_46	2,2',3,6'-Tetrabromodiphenyl ether	PBDE
PBDE_cong_47	2,2',4,4'-Tetrabromodiphenyl ether	PBDE
PBDE_cong_48	2,2',4,5-Tetrabromodiphenyl ether	PBDE
PBDE_cong_49	2,2',4,5'-Tetrabromodiphenyl ether	PBDE
PBDE_cong_5	2,3-Dibromodiphenyl ether	PBDE
PBDE_cong_50	2,2',4,6-Tetrabromodiphenyl ether	PBDE
PBDE_cong_51	2,2',4,6'-Tetrabromodiphenyl ether	PBDE
PBDE_cong_52	2,2',5,5'-Tetrabromodiphenyl ether	PBDE

PBDE_cong_53	2,2',5,6'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_54	2,2',6,6'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_55	2,3,3',4'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_56	2,3,3',4'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_57	2,3,3',5'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_58	2,3,3',5'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_59	2,3,3',6'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_6	2,3'-Dibromodiphenyl ether	PBDE	
PBDE_cong_60	2,3,4,4'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_61	2,3,4,5'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_62	2,3,4,6'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_63	2,3,4',5'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_64	2,3,4',6'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_65	2,3,5,6'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_66	2,3',4,4'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_67	2,3',4,5'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_68	2,3',4,5'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_69	2,3',4,6'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_7	2,4-Dibromodiphenyl ether	PBDE	
PBDE_cong_70	2,3',4',5'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_71	2,3',4',6'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_72	2,3',5,5'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_73	2,3',5',6'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_74	2,4,4',5'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_75	2,4,4',6'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_76	2',3,4,5'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_77	3,3',4,4'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_78	3,3',4,5'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_79	3,3',4,5'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_8	2,4'-Dibromodiphenyl ether	PBDE	
PBDE_cong_80	3,3',5,5'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_81	3,4,4',5'-Tetrabromodiphenyl ether	PBDE	
PBDE_cong_82	2,2',3,3',4'-Pentabromodiphenyl ether	PBDE	
PBDE_cong_83	2,2',3,3',5'-Pentabromodiphenyl ether	PBDE	
PBDE_cong_84	2,2',3,3',6'-Pentabromodiphenyl ether	PBDE	
PBDE_cong_85	2,2',3,4,4'-Pentabromodiphenyl ether	PBDE	
PBDE_cong_86	2,2',3,4,5'-Pentabromodiphenyl ether	PBDE	
PBDE_cong_87	2,2',3,4,5'-Pentabromodiphenyl ether	PBDE	
PBDE_cong_88	2,2',3,4,6'-Pentabromodiphenyl ether	PBDE	
PBDE_cong_89	2,2',3,4,6'-Pentabromodiphenyl ether	PBDE	
PBDE_cong_9	2,5-Dibromodiphenyl ether	PBDE	
PBDE_cong_90	2,2',3,4',5'-Pentabromodiphenyl ether	PBDE	
PBDE_cong_91	2,2',3,4',6'-Pentabromodiphenyl ether	PBDE	
PBDE_cong_92	2,2',3,5,5'-Pentabromodiphenyl ether	PBDE	
PBDE_cong_93	2,2',3,5,6'-Pentabromodiphenyl ether	PBDE	
PBDE_cong_94	2,2',3,5,6'-Pentabromodiphenyl ether	PBDE	
PBDE_cong_95	2,2',3,5',6'-Pentabromodiphenyl ether	PBDE	
PBDE_cong_96	2,2',3,6,6'-Pentabromodiphenyl ether	PBDE	
PBDE_cong_97	2,2',3',4,5'-Pentabromodiphenyl ether	PBDE	
PBDE_cong_98	2,2',3',4,6'-Pentabromodiphenyl ether	PBDE	
PBDE_cong_99	2,2',4,4',5'-Pentabromodiphenyl ether	PBDE	
PCB001	2-Chlorobiphenyl	PCBs	2-chloro-1,1'-Biphenyl; 2-Monochloro-biphenyl; PCB 1;
PCB001L	13C-2-Chlorobiphenyl	LabeledPCB	
PCB002	3-Chlorobiphenyl	PCBs	1,1'-Biphenyl, 3-monochloro-; 3-Monochloro-biphenyl;
PCB003	4-Chlorobiphenyl	PCBs	1-chloro-4-phenyl benzene; 4-chloro-1,1'-Biphenyl; 4-chlorobiphenyl; 4-Monochloro-biphenyl;
PCB003L	13C-4-Chlorobiphenyl	LabeledPCB	
PCB004	2,2'-Dichlorobiphenyl	PCBs	PCB 4; 2,2'-Dichlorobiphenyl
PCB004+010	Coelution of PCB 004 and 010	PCBs	
PCB004L	13C-2,2'-Dichlorobiphenyl	LabeledPCB	
PCB005	2,3-Dichlorobiphenyl	PCBs	PCB 5; 2,3-Dichlorobiphenyl
PCB005+008	Coelution of PCB 005 and 008	PCBs	
			2051607
			234432850
			2051618
			2051629
			208263778
			13029088
			234432861
			16605917

PCB006	2,3'-Dichlorobiphenyl	PCBs	PCB 6; 2,3'-Dichlorobiphenyl	25569806
PCB007	2,4-Dichlorobiphenyl	PCBs	PCB 7; 2,4-Dichlorobiphenyl	33284503
PCB007+009	Coelution of PCB 007 and 009	PCBs		
PCB008	2,4'-Dichlorobiphenyl	PCBs	PCB 8; 2,4'-Dichlorobiphenyl	34883437
PCB009	2,5-Dichlorobiphenyl	PCBs	PCB 9; 2,5-Dichlorobiphenyl	34883391
PCB010	2,6-Dichlorobiphenyl	PCBs	PCB 10; 2,6-Dichlorobiphenyl	33146451
PCB011	3,3'-Dichlorobiphenyl	PCBs	PCB 11; 3,3'-Dichlorobiphenyl	2050671
PCB012	3,4-Dichlorobiphenyl	PCBs		2974927
PCB012+013	Coelution of PCB 012 and 013	PCBs		
PCB013	3,4'-Dichlorobiphenyl	PCBs	PCB 13; 3,4'-Dichlorobiphenyl	2974905
PCB014	3,5-Dichlorobiphenyl	PCBs		34883415
PCB015	4,4'-Dichlorobiphenyl	PCBs	1,1'-Biphenyl, 4,4'-dichloro-; 4,4-Dichlorobiphenyl; 4,4'-Dichlorobiphenyl; Dichlorobiphenyl;	2050682
PCB015L	13C-4,4'-Dichlorobiphenyl	LabeledPCB		208263676
PCB016	2,2',3-Trichlorobiphenyl	PCBs	PCB 16; 2,2',3-Trichlorobiphenyl	38444789
PCB016+032	Coelution of PCB 016 and 032	PCBs		
PCB017	2,2',4-Trichlorobiphenyl	PCBs	PCB 17; 2,2',4-Trichlorobiphenyl	37680663
PCB018	2,2',5-Trichlorobiphenyl	PCBs	PCB 18; 2,2',5-Trichlorobiphenyl	37680652
PCB018+030	Coelution of PCB 018 and 030	PCBs		
PCB019	2,2',6-Trichlorobiphenyl	PCBs	PCB 19; 2,2',6-Trichlorobiphenyl	38444734
PCB019L	13C-2,2',6-Trichlorobiphenyl	LabeledPCB		234432872
PCB020	2,3,3'-Trichlorobiphenyl	PCBs	PCB 20; 2,3,3'-Trichlorobiphenyl	38444847
PCB020+021+033	Coelution of PCB 020, 021, and 033	PCBs		
PCB020+028	Coelution of PCB 020 and 028	PCBs		
PCB020+033	Coelution of PCB 020 and 033	PCBs		
PCB021	2,3,4-Trichlorobiphenyl	PCBs	PCB 21; 2,3,4-Trichlorobiphenyl	55702460
PCB021+033	Coelution of PCB 021 and 033	PCBs		
PCB022	2,3,4'-Trichlorobiphenyl	PCBs	PCB 22; 2,3,4'-Trichlorobiphenyl	38444858
PCB023	2,3,5-Trichlorobiphenyl	PCBs	PCB 23; 2,3,5-Trichlorobiphenyl	55720440
PCB023+034	Coelution of PCB 023 and 034	PCBs		
PCB024	2,3,6-Trichlorobiphenyl	PCBs	PCB 24; 2,3,6-Trichlorobiphenyl	55702459
PCB024+027	Coelution of PCB 024 and 027	PCBs		
PCB025	2,3',4-Trichlorobiphenyl	PCBs	PCB 25; 2,3',4-Trichlorobiphenyl	55712373
PCB026	2,3',5-Trichlorobiphenyl	PCBs	PCB 26; 2,3',5-Trichlorobiphenyl	38444814
PCB026+029	Coelution of PCB 026 and 029	PCBs		
PCB027	2,3',6-Trichlorobiphenyl	PCBs	PCB 27; 2,3',6-Trichlorobiphenyl	38444767
PCB028	2,4,4'-Trichlorobiphenyl	PCBs	PCB 28; 2,4,4'-Trichlorobiphenyl	7012375
PCB028+031	Coelution of PCB 028 and 031	PCBs		
PCB028L	13C-2,4,4'-Trichlorobiphenyl	LabeledPCB		208263767
PCB029	2,4,5-Trichlorobiphenyl	PCBs	PCB 29; 2,4,5-Trichlorobiphenyl	15862074
PCB030	2,4,6-Trichlorobiphenyl	PCBs	PCB 30; 2,4,6-Trichlorobiphenyl	35693926
PCB031	2,4',5-Trichlorobiphenyl	PCBs	PCB 31; 2,4',5-Trichlorobiphenyl	16606023
PCB032	2,4',6-Trichlorobiphenyl	PCBs	PCB 32; 2,4',6-Trichlorobiphenyl	38444778
PCB033	2,3',4'-Trichlorobiphenyl	PCBs	PCB 33; 2,3',4'-Trichlorobiphenyl	38444869
PCB034	2,3',5'-Trichlorobiphenyl	PCBs	PCB 34; 2,3',5'-Trichlorobiphenyl	37680685
PCB035	3,3',4-Trichlorobiphenyl	PCBs	PCB 35; 3,3',4-Trichlorobiphenyl	37680696
PCB036	3,3',5-Trichlorobiphenyl	PCBs	PCB 36; 3,3',5-Trichlorobiphenyl	38444870
PCB037	3,4,4'-Trichlorobiphenyl	PCBs	PCB 37; 3,4,4'-Trichlorobiphenyl	38444905
PCB037L	13C-3,4,4'-Trichlorobiphenyl	LabeledPCB		208263790
PCB038	3,4,5-Trichlorobiphenyl	PCBs	PCB 38; 3,4,5-Trichlorobiphenyl	53555661
PCB039	3,4',5-Trichlorobiphenyl	PCBs	PCB 39; 3,4',5-Trichlorobiphenyl	38444881
PCB040	2,2',3,3'-Tetrachlorobiphenyl	PCBs	PCB 40; 2,2',3,3'-Tetrachlorobiphenyl	38444938
PCB040+041+071	Coelution of PCB 040, 041, and 071	PCBs		
PCB041	2,2',3,4-Tetrachlorobiphenyl	PCBs	PCB 41; 2,2',3,4-Tetrachlorobiphenyl	52663599
PCB041+071	Coelution of PCB 041 and 071	PCBs		
PCB041+071+072	Coelution of PCB 041, 071, and 072	PCBs		
PCB042	2,2',3,4'-Tetrachlorobiphenyl	PCBs	PCB 42; 2,2',3,4'-Tetrachlorobiphenyl	36559225
PCB043	2,2',3,5-Tetrachlorobiphenyl	PCBs	PCB 43; 2,2',3,5-Tetrachlorobiphenyl	70362468
PCB043+052	Coelution of PCB 043 and 052	PCBs		
PCB043+073	Coelution of PCB 043 and 073	PCBs		
PCB044	2,2',3,5'-Tetrachlorobiphenyl	PCBs	PCB 44; 2,2',3,5'-Tetrachlorobiphenyl	41464395
PCB044+047+065	Coelution of PCB 044, 047, and 065	PCBs		

PCB045	2,2',3,6-Tetrachlorobiphenyl	PCBs	PCB 45; 2,2',3,6-Tetrachlorobiphenyl	70362457
PCB045+051	Coelution of PCB 045 and 051	PCBs		
PCB046	2,2',3,6'-Tetrachlorobiphenyl	PCBs	PCB 46; 2,2',3,6'-Tetrachlorobiphenyl	41464475
PCB047	2,2',4,4'-Tetrachlorobiphenyl	PCBs	PCB 47; 2,2',4,4'-Tetrachlorobiphenyl	2437798
PCB047+048+3m	Coelution of PCB 047, 048, 062, 065, and 075	PCBs		
PCB047+062+075	Coelution of PCB 047, 062, and 075	PCBs		
PCB048	2,2',4,5-Tetrachlorobiphenyl	PCBs	PCB 48; 2,2',4,5-Tetrachlorobiphenyl	70362479
PCB049	2,2',4,5'-Tetrachlorobiphenyl	PCBs	PCB 49; 2,2',4,5'-Tetrachlorobiphenyl	41464408
PCB049+061	Coelution of PCB 049 and 061	PCBs		
PCB049+069	Coelution of PCB 049 and 069	PCBs		
PCB050	2,2',4,6-Tetrachlorobiphenyl	PCBs	PCB 50; 2,2',4,6-Tetrachlorobiphenyl	62796650
PCB050+053	Coelution of PCB 050 and 053	PCBs		
PCB051	2,2',4,6'-Tetrachlorobiphenyl	PCBs	PCB 51; 2,2',4,6'-Tetrachlorobiphenyl	68194047
PCB052	2,2',5,5'-Tetrachlorobiphenyl	PCBs	PCB 52; 2,2',5,5'-Tetrachlorobiphenyl	35693993
PCB053	2,2',5,6'-Tetrachlorobiphenyl	PCBs	PCB 53; 2,2',5,6'-Tetrachlorobiphenyl	41464419
PCB054	2,2',6,6'-Tetrachlorobiphenyl	PCBs	PCB 54; 2,2',6,6'-Tetrachlorobiphenyl	15968055
PCB054L	13C-2,2',6,6'-Tetrachlorobiphenyl	LabeledPCB		234432883
PCB055	2,3,3',4-Tetrachlorobiphenyl	PCBs	PCB 55; 2,3,3',4-Tetrachlorobiphenyl	74338242
PCB056	2,3,3',4'-Tetrachlorobiphenyl	PCBs	PCB 56; 2,3,3',4'-Tetrachlorobiphenyl	41464431
PCB056+060	Coelution of PCB 056 and 060	PCBs		
PCB057	2,3,3',5-Tetrachlorobiphenyl	PCBs	PCB 57; 2,3,3',5-Tetrachlorobiphenyl	70424678
PCB058	2,3,3',5'-Tetrachlorobiphenyl	PCBs	PCB 58; 2,3,3',5'-Tetrachlorobiphenyl	41464497
PCB059	2,3,3',6-Tetrachlorobiphenyl	PCBs	PCB 59; 2,3,3',6-Tetrachlorobiphenyl	74472336
PCB059+062+075	Coelution of PCB 059, 062, and 075	PCBs		
PCB059+062+078	Coelution of PCB 059, 062, and 078	PCBs		
PCB060	2,3,4,4'-Tetrachlorobiphenyl	PCBs	PCB 60; 2,3,4,4'-Tetrachlorobiphenyl	33025411
PCB061	2,3,4,5-Tetrachlorobiphenyl	PCBs	PCB 61; 2,3,4,5-Tetrachlorobiphenyl	33284536
PCB061+063	Coelution of PCB 061 and 063	PCBs		
PCB061+070+2m	Coelution of PCB 061, 070, 074, and 076	PCBs		
PCB062	2,3,4,6-Tetrachlorobiphenyl	PCBs	PCB 62; 2,3,4,6-Tetrachlorobiphenyl	54230227
PCB063	2,3,4',5-Tetrachlorobiphenyl	PCBs	PCB 63; 2,3,4',5-Tetrachlorobiphenyl	74472347
PCB064	2,3,4',6-Tetrachlorobiphenyl	PCBs	PCB 64; 2,3,4',6-Tetrachlorobiphenyl	52663588
PCB064+068	Coelution of PCB 064 and 068	PCBs		
PCB064+072	Coelution of PCB 064 and 072	PCBs		
PCB065	2,3,5,6-Tetrachlorobiphenyl	PCBs	PCB 65; 2,3,5,6-Tetrachlorobiphenyl	33284547
PCB066	2,3',4,4'-Tetrachlorobiphenyl	PCBs	PCB 66; 2,3',4,4'-Tetrachlorobiphenyl	32598100
PCB066+080	Coelution of PCB 066 and 080	PCBs		
PCB067	2,3',4,5-Tetrachlorobiphenyl	PCBs	PCB 67; 2,3',4,5-Tetrachlorobiphenyl	73575538
PCB068	2,3',4,5'-Tetrachlorobiphenyl	PCBs	PCB 68; 2,3',4,5'-Tetrachlorobiphenyl	73575527
PCB069	2,3',4,6-Tetrachlorobiphenyl	PCBs	PCB 69; 2,3',4,6-Tetrachlorobiphenyl	60233241
PCB069+073	Coelution of PCB 069 and 073	PCBs		
PCB070	2,3',4',5-Tetrachlorobiphenyl	PCBs	PCB 70; 2,3',4',5-Tetrachlorobiphenyl	32598111
PCB070+074+076	Coelution of PCB 070, 074, and 076	PCBs		
PCB071	2,3',4',6-Tetrachlorobiphenyl	PCBs	PCB 71; 2,3',4',6-Tetrachlorobiphenyl	41464464
PCB072	2,3',5,5'-Tetrachlorobiphenyl	PCBs	PCB 72; 2,3',5,5'-Tetrachlorobiphenyl	41464420
PCB073	2,3',5',6-Tetrachlorobiphenyl	PCBs	PCB 73; 2,3',5',6-Tetrachlorobiphenyl	74338231
PCB074	2,4,4',5-Tetrachlorobiphenyl	PCBs	PCB 74; 2,4,4',5-Tetrachlorobiphenyl	32690930
PCB075	2,4,4',6-Tetrachlorobiphenyl	PCBs	PCB 75; 2,4,4',6-Tetrachlorobiphenyl	32598122
PCB076	2,3',4',5'-Tetrachlorobiphenyl	PCBs	PCB 76; 2,3',4',5'-Tetrachlorobiphenyl	70362480
PCB077	3,3',4,4'-Tetrachlorobiphenyl	PCBs	PCB 77; 3,3',4,4'-Tetrachlorobiphenyl	32598133
PCB077L	13C-3,3',4,4'-Tetrachlorobiphenyl	LabeledPCB		105600235
PCB078	3,3',4,5-Tetrachlorobiphenyl	PCBs	PCB 78; 3,3',4,5-Tetrachlorobiphenyl	70362491
PCB079	3,3',4,5'-Tetrachlorobiphenyl	PCBs	PCB 79; 3,3',4,5'-Tetrachlorobiphenyl	41464486
PCB080	3,3',5,5'-Tetrachlorobiphenyl	PCBs	PCB 80; 3,3',5,5'-Tetrachlorobiphenyl	33284525
PCB081	3,4,4',5-Tetrachlorobiphenyl	PCBs	PCB 81; 3,4,4',5-Tetrachlorobiphenyl	70362504
PCB081L	13C-3,4,4',5-Tetrachlorobiphenyl	LabeledPCB		208461249
PCB082	2,2',3,3',4-Pentachlorobiphenyl	PCBs	PCB 82; 2,2',3,3',4-Pentachlorobiphenyl	52663624
PCB083	2,2',3,3',5-Pentachlorobiphenyl	PCBs	PCB 83; 2,2',3,3',5-Pentachlorobiphenyl	60145202
PCB083+099	Coelution of PCB 083 and 099	PCBs		
PCB083+109	Coelution of PCB 083 and 109	PCBs		
PCB084	2,2',3,3',6-Pentachlorobiphenyl	PCBs	PCB 84; 2,2',3,3',6-Pentachlorobiphenyl	52663602
PCB084+092	Coelution of PCB 084 and 092	PCBs		

PCB085	2,2',3,4,4'-Pentachlorobiphenyl	PCBs	PCB 85; 2,2',3,4,4'-Pentachlorobiphenyl	65510454
PCB085+116	Coelution of PCB 085 and 116	PCBs		
PCB085+116+117	Coelution of PCB 085, 116, and 117	PCBs		
PCB085+124	Coelution of PCB 085 and 124	PCBs		
PCB086	2,2',3,4,5-Pentachlorobiphenyl	PCBs	PCB 86; 2,2',3,4,5-Pentachlorobiphenyl	55312691
PCB086+087+4m	Coelution of PCB 086, 087, 097, 108, 119, and 125	PCBs		
PCB086+087+4ma	Coelution of PCB 086, 087, 097, 109, 119, and 125	PCBs		
PCB086+097	Coelution of PCB 086 and 097	PCBs		
PCB087	2,2',3,4,5'-Pentachlorobiphenyl	PCBs	PCB 87; 2,2',3,4,5'-Pentachlorobiphenyl	38380028
PCB087+111	Coelution of PCB 087 and 111	PCBs		
PCB088	2,2',3,4,6-Pentachlorobiphenyl	PCBs	PCB 88; 2,2',3,4,6-Pentachlorobiphenyl	55215173
PCB088+091	Coelution of PCB 088 and 091	PCBs		
PCB088+095	Coelution of PCB 088 and 095	PCBs		
PCB089	2,2',3,4,6'-Pentachlorobiphenyl	PCBs	PCB 89; 2,2',3,4,6'-Pentachlorobiphenyl	73575572
PCB089+101+113	Coelution of PCB 089, 101, and 113	PCBs		
PCB090	2,2',3,4',5-Pentachlorobiphenyl	PCBs	PCB 90; 2,2',3,4',5-Pentachlorobiphenyl	68194070
PCB090+101+113	Coelution of PCB 090, 101, and 113	PCBs		
PCB091	2,2',3,4',6-Pentachlorobiphenyl	PCBs	PCB 91; 2,2',3,4',6-Pentachlorobiphenyl	68194058
PCB092	2,2',3,5,5'-Pentachlorobiphenyl	PCBs	PCB 92; 2,2',3,5,5'-Pentachlorobiphenyl	52663613
PCB093	2,2',3,5,6-Pentachlorobiphenyl	PCBs	PCB 93; 2,2',3,5,6-Pentachlorobiphenyl	73575561
PCB093+098+102	Coelution of PCB 093, 098, and 102	PCBs		
PCB093+098+2m	Coelution of PCB 093, 098, 100, and 102	PCBs		
PCB093+100	Coelution of PCB 093 and 100	PCBs		
PCB093+95+98+100	Coelution of PCB 093, 095, 098, and 100	PCBs		
PCB094	2,2',3,5,6'-Pentachlorobiphenyl	PCBs	PCB 94; 2,2',3,5,6'-Pentachlorobiphenyl	73575550
PCB095	2,2',3,5',6-Pentachlorobiphenyl	PCBs	PCB 95; 2,2',3,5',6-Pentachlorobiphenyl	38379996
PCB095+121	Coelution of PCB 095 and 121	PCBs		
PCB096	2,2',3,6,6'-Pentachlorobiphenyl	PCBs	PCB 96; 2,2',3,6,6'-Pentachlorobiphenyl	73575549
PCB097	2,2',3,4',5'-Pentachlorobiphenyl	PCBs	PCB 97; 2,2',3,4',5'-Pentachlorobiphenyl	41464511
PCB097+125	Coelution of PCB 097 and 125	PCBs		
PCB098	2,2',3,4',6'-Pentachlorobiphenyl	PCBs	PCB 98; 2,2',3,4',6'-Pentachlorobiphenyl	60233252
PCB098+102	Coelution of PCB 098 and 102	PCBs		
PCB099	2,2',4,4',5-Pentachlorobiphenyl	PCBs	PCB 99; 2,2',4,4',5-Pentachlorobiphenyl	38380017
PCB100	2,2',4,4',6-Pentachlorobiphenyl	PCBs	PCB 100; 2,2',4,4',6-Pentachlorobiphenyl	39485831
PCB101	2,2',4,5,5'-Pentachlorobiphenyl	PCBs	PCB 101; 2,2',4,5,5'-Pentachlorobiphenyl	37680732
PCB101+113	Coelution of PCB 101 and 113	PCBs		
PCB102	2,2',4,5,6'-Pentachlorobiphenyl	PCBs	PCB 102; 2,2',4,5,6'-Pentachlorobiphenyl	68194069
PCB103	2,2',4,5',6-Pentachlorobiphenyl	PCBs	PCB 103; 2,2',4,5',6-Pentachlorobiphenyl	60145213
PCB104	2,2',4,6,6'-Pentachlorobiphenyl	PCBs	PCB 104; 2,2',4,6,6'-Pentachlorobiphenyl	56558168
PCB104L	13C-2,2',4,6,6'-Pentachlorobiphenyl	LabeledPCB		234432894
PCB105	2,3,3',4,4'-Pentachlorobiphenyl	PCBs	PCB 105; 2,3,3',4,4'-Pentachlorobiphenyl	32598144
PCB105L	13C-2,3,3',4,4'-Pentachlorobiphenyl	LabeledPCB		208263621
PCB106	2,3,3',4,5-Pentachlorobiphenyl	PCBs	PCB 106; 2,3,3',4,5-Pentachlorobiphenyl	70424690
PCB106+118	Coelution of PCB 106 and 118	PCBs		
PCB107	2,3,3',4',5-Pentachlorobiphenyl	PCBs	PCB 107; 2,3,3',4',5-Pentachlorobiphenyl	70424689
PCB107+123	Coelution of PCB 107 and 123	PCBs		
PCB107+124	Coelution of PCB 107 and 124	PCBs		
PCB108	2,3,3',4,5'-Pentachlorobiphenyl	PCBs	PCB 108; 2,3,3',4,5'-Pentachlorobiphenyl	70362413
PCB108+124	Coelution of PCB 108 and 124	PCBs		
PCB109	2,3,3',4,6-Pentachlorobiphenyl	PCBs	PCB 109; 2,3,3',4,6-Pentachlorobiphenyl	74472358
PCB110	2,3,3',4',6-Pentachlorobiphenyl	PCBs	PCB 110; 2,3,3',4',6-Pentachlorobiphenyl	38380039
PCB110+115	Coelution of PCB 110 and 115	PCBs		
PCB111	2,3,3',5,5'-Pentachlorobiphenyl	PCBs	PCB 111; 2,3,3',5,5'-Pentachlorobiphenyl	39635320
PCB111+116+117	Coelution of PCB 111, 116, and 117	PCBs		
PCB111L	13C-2,3,3',5,5'-Pentachlorobiphenyl	LabeledPCB		235416292
PCB112	2,3,3',5,6-Pentachlorobiphenyl	PCBs	PCB 112; 2,3,3',5,6-Pentachlorobiphenyl	74472369
PCB112+119	Coelution of PCB 112 and 119	PCBs		
PCB113	2,3,3',5',6-Pentachlorobiphenyl	PCBs	PCB 113; 2,3,3',5',6-Pentachlorobiphenyl	68194105
PCB114	2,3,4,4',5-Pentachlorobiphenyl	PCBs	PCB 114; 2,3,4,4',5-Pentachlorobiphenyl	74472370
PCB114L	13C-2,3,4,4',5-Pentachlorobiphenyl	LabeledPCB		208263632
PCB115	2,3,4,4',6-Pentachlorobiphenyl	PCBs	PCB 115; 2,3,4,4',6-Pentachlorobiphenyl	74472381
PCB116	2,3,4,5,6-Pentachlorobiphenyl	PCBs	PCB 116; 2,3,4,5,6-Pentachlorobiphenyl	18259057

PCB116+125	Coelution of PCB 116 and 125	PCBs		
PCB117	2,3,4',5,6-Pentachlorobiphenyl	PCBs	PCB 117; 2,3,4',5,6-Pentachlorobiphenyl	68194116
PCB118	2,3',4,4',5-Pentachlorobiphenyl	PCBs	PCB 118; 2,3',4,4',5-Pentachlorobiphenyl	31508006
PCB118L	13C-2,3',4,4',5-Pentachlorobiphenyl	LabeledPCB		104130407
PCB119	2,3',4,4',6-Pentachlorobiphenyl	PCBs	PCB 119; 2,3',4,4',6-Pentachlorobiphenyl	56558179
PCB120	2,3',4,5,5'-Pentachlorobiphenyl	PCBs	PCB 120; 2,3',4,5,5'-Pentachlorobiphenyl	68194127
PCB121	2,3',4,5',6-Pentachlorobiphenyl	PCBs	PCB 121; 2,3',4,5',6-Pentachlorobiphenyl	56558180
PCB122	2,3,3',4',5'-Pentachlorobiphenyl	PCBs	PCB 122; 2,3,3',4',5'-Pentachlorobiphenyl	76842074
PCB123	2,3',4,4',5'-Pentachlorobiphenyl	PCBs	PCB 123; 2,3',4,4',5'-Pentachlorobiphenyl	65510443
PCB123+149	Coelution of PCB 123 and 149	PCBs		
PCB123L	13C-2,3',4,4',5'-Pentachlorobiphenyl	LabeledPCB		208263643
PCB124	2,3',4',5,5'-Pentachlorobiphenyl	PCBs	PCB 124; 2,3',4',5,5'-Pentachlorobiphenyl	70424703
PCB125	2,3',4',5',6-Pentachlorobiphenyl	PCBs	PCB 125; 2,3',4',5',6-Pentachlorobiphenyl	74472392
PCB126	3,3',4,4',5-Pentachlorobiphenyl	PCBs	PCB 126; 3,3',4,4',5-Pentachlorobiphenyl	57465288
PCB126L	13C-3,3',4,4',5-Pentachlorobiphenyl	LabeledPCB		208263654
PCB127	3,3',4,5,5'-Pentachlorobiphenyl	PCBs	PCB 127; 3,3',4,5,5'-Pentachlorobiphenyl	39635331
PCB128	2,2',3,3',4,4'-Hexachlorobiphenyl	PCBs	PCB 128; 2,2',3,3',4,4'-Hexachlorobiphenyl	38380073
PCB128+162	Coelution of PCB 128 and 162	PCBs		
PCB128+166	Coelution of PCB 128 and 166	PCBs		
PCB129	2,2',3,3',4,5-Hexachlorobiphenyl	PCBs	PCB 129; 2,2',3,3',4,5-Hexachlorobiphenyl	55215184
PCB129+138+163	Coelution of PCB 129, 138, and 163	PCBs		
PCB129+138+2m	Coelution of PCB 129, 138, 160, and 163	PCBs		
PCB130	2,2',3,3',4,5'-Hexachlorobiphenyl	PCBs	PCB 130; 2,2',3,3',4,5'-Hexachlorobiphenyl	52663668
PCB131	2,2',3,3',4,6-Hexachlorobiphenyl	PCBs	PCB 131; 2,2',3,3',4,6-Hexachlorobiphenyl	61798707
PCB131+142	Coelution of PCB 131 and 142	PCBs		
PCB132	2,2',3,3',4,6'-Hexachlorobiphenyl	PCBs	PCB 132; 2,2',3,3',4,6'-Hexachlorobiphenyl	38380051
PCB132+146	Coelution of PCB 132 and 146	PCBs		
PCB132+153+168	Coelution of PCB 132, 153, and 168	PCBs		
PCB133	2,2',3,3',5,5'-Hexachlorobiphenyl	PCBs	PCB 133; 2,2',3,3',5,5'-Hexachlorobiphenyl	35694043
PCB133+165	Coelution of PCB 133 and 165	PCBs		
PCB134	2,2',3,3',5,6-Hexachlorobiphenyl	PCBs	PCB 134; 2,2',3,3',5,6-Hexachlorobiphenyl	52704708
PCB134+143	Coelution of PCB 134 and 143	PCBs		
PCB135	2,2',3,3',5,6'-Hexachlorobiphenyl	PCBs	PCB 135; 2,2',3,3',5,6'-Hexachlorobiphenyl	52744135
PCB135+151	Coelution of PCB 135 and 151	PCBs		
PCB135+151+154	Coelution of PCB 135, 151, and 154	PCBs		
PCB136	2,2',3,3',6,6'-Hexachlorobiphenyl	PCBs	PCB 136; 2,2',3,3',6,6'-Hexachlorobiphenyl	38411222
PCB137	2,2',3,4,4',5-Hexachlorobiphenyl	PCBs	PCB 137; 2,2',3,4,4',5-Hexachlorobiphenyl	35694065
PCB138	2,2',3,4,4',5'-Hexachlorobiphenyl	PCBs	PCB 138; 2,2',3,4,4',5'-Hexachlorobiphenyl	35065282
PCB138+158	Coelution of PCB 138 and 158	PCBs		
PCB138+160	Coelution of PCB 138 and 160	PCBs		
PCB139	2,2',3,4,4',6-Hexachlorobiphenyl	PCBs	PCB 139; 2,2',3,4,4',6-Hexachlorobiphenyl	56030569
PCB139+140	Coelution of PCB 139 and 140	PCBs		
PCB139+149	Coelution of PCB 139 and 149	PCBs		
PCB140	2,2',3,4,4',6'-Hexachlorobiphenyl	PCBs	PCB 140; 2,2',3,4,4',6'-Hexachlorobiphenyl	59291644
PCB141	2,2',3,4,5,5'-Hexachlorobiphenyl	PCBs	PCB 141; 2,2',3,4,5,5'-Hexachlorobiphenyl	52712046
PCB142	2,2',3,4,5,6-Hexachlorobiphenyl	PCBs	PCB 142; 2,2',3,4,5,6-Hexachlorobiphenyl	41411614
PCB143	2,2',3,4,5,6'-Hexachlorobiphenyl	PCBs	PCB 143; 2,2',3,4,5,6'-Hexachlorobiphenyl	68194150
PCB144	2,2',3,4,5',6-Hexachlorobiphenyl	PCBs	PCB 144; 2,2',3,4,5',6-Hexachlorobiphenyl	68194149
PCB145	2,2',3,4,6,6'-Hexachlorobiphenyl	PCBs	PCB 145; 2,2',3,4,6,6'-Hexachlorobiphenyl	74472405
PCB146	2,2',3,4',5,5'-Hexachlorobiphenyl	PCBs	PCB 146; 2,2',3,4',5,5'-Hexachlorobiphenyl	51908168
PCB146+161	Coelution of PCB 146 and 161	PCBs		
PCB147	2,2',3,4',5,6-Hexachlorobiphenyl	PCBs	PCB 147; 2,2',3,4',5,6-Hexachlorobiphenyl	68194138
PCB147+149	Coelution of PCB 147 and 149	PCBs		
PCB148	2,2',3,4',5,6'-Hexachlorobiphenyl	PCBs	PCB 148; 2,2',3,4',5,6'-Hexachlorobiphenyl	74472416
PCB149	2,2',3,4',5',6-Hexachlorobiphenyl	PCBs	PCB 149; 2,2',3,4',5',6-Hexachlorobiphenyl	38380040
PCB150	2,2',3,4',6,6'-Hexachlorobiphenyl	PCBs	PCB 150; 2,2',3,4',6,6'-Hexachlorobiphenyl	68194081
PCB151	2,2',3,5,5',6-Hexachlorobiphenyl	PCBs	PCB 151; 2,2',3,5,5',6-Hexachlorobiphenyl	52663635
PCB152	2,2',3,5,6,6'-Hexachlorobiphenyl	PCBs	PCB 152; 2,2',3,5,6,6'-Hexachlorobiphenyl	68194092
PCB153	2,2',4,4',5,5'-Hexachlorobiphenyl	PCBs	PCB 153; 2,2',4,4',5,5'-Hexachlorobiphenyl	35065271
PCB153+168	Coelution of PCB 153 and 168	PCBs		
PCB154	2,2',4,4',5,6'-Hexachlorobiphenyl	PCBs	PCB 154; 2,2',4,4',5,6'-Hexachlorobiphenyl	60145224
PCB155	2,2',4,4',6,6'-Hexachlorobiphenyl	PCBs	PCB 155; 2,2',4,4',6,6'-Hexachlorobiphenyl	33979032

PCB155L	13C-2,2',4,4',6,6'-Hexachlorobiphenyl	LabeledPCB		234432907
PCB156	2,3,3',4,4',5-Hexachlorobiphenyl	PCBs	PCB 156; 2,3,3',4,4',5-Hexachlorobiphenyl	38380084
PCB156+157	Coelution of PCB 156 and 157	PCBs		
PCB156L	13C-2,3,3',4,4',5-Hexachlorobiphenyl	LabeledPCB		208263687
PCB156L+157L	Coelution of PCB 156L and 157L	LabeledPCB		
PCB157	2,3,3',4,4',5'-Hexachlorobiphenyl	PCBs	PCB 157; 2,3,3',4,4',5'-Hexachlorobiphenyl	69782907
PCB158	2,3,3',4,4',6-Hexachlorobiphenyl	PCBs	PCB 158; 2,3,3',4,4',6-Hexachlorobiphenyl	74472427
PCB159	2,3,3',4,5,5'-Hexachlorobiphenyl	PCBs	PCB 159; 2,3,3',4,5,5'-Hexachlorobiphenyl	39635353
PCB160	2,3,3',4,5,6-Hexachlorobiphenyl	PCBs	PCB 160; 2,3,3',4,5,6-Hexachlorobiphenyl	41411625
PCB160+163+164	Coelution of PCB 160, 163, and 164	PCBs		
PCB161	2,3,3',4,5',6-Hexachlorobiphenyl	PCBs	PCB 161; 2,3,3',4,5',6-Hexachlorobiphenyl	74472438
PCB162	2,3,3',4',5,5'-Hexachlorobiphenyl	PCBs	PCB 162; 2,3,3',4',5,5'-Hexachlorobiphenyl	39635342
PCB163	2,3,3',4',5,6-Hexachlorobiphenyl	PCBs	PCB 163; 2,3,3',4',5,6-Hexachlorobiphenyl	74472449
PCB163+164	Coelution of PCB 163 and 164	PCBs		
PCB164	2,3,3',4',5',6-Hexachlorobiphenyl	PCBs	PCB 164; 2,3,3',4',5',6-Hexachlorobiphenyl	74472450
PCB165	2,3,3',5,5',6-Hexachlorobiphenyl	PCBs	PCB 165; 2,3,3',5,5',6-Hexachlorobiphenyl	74472461
PCB166	2,3,4,4',5,6-Hexachlorobiphenyl	PCBs	PCB 166; 2,3,4,4',5,6-Hexachlorobiphenyl	41411636
PCB167	2,3',4,4',5,5'-Hexachlorobiphenyl	PCBs	PCB 167; 2,3',4,4',5,5'-Hexachlorobiphenyl	52663726
PCB167L	13C-2,3',4,4',5,5'-Hexachlorobiphenyl	LabeledPCB		208263698
PCB168	2,3',4,4',5',6-Hexachlorobiphenyl	PCBs	PCB 168; 2,3',4,4',5',6-Hexachlorobiphenyl	59291655
PCB169	3,3',4,4',5,5'-Hexachlorobiphenyl	PCBs	PCB 169; 3,3',4,4',5,5'-Hexachlorobiphenyl	32774166
PCB169L	13C-3,3',4,4',5,5'-Hexachlorobiphenyl	LabeledPCB		208263701
PCB170	2,2',3,3',4,4',5-Heptachlorobiphenyl	PCBs	PCB 170; 2,2',3,3',4,4',5-Heptachlorobiphenyl	35065306
PCB170+190	Coelution of PCB 170 and 190	PCBs		
PCB171	2,2',3,3',4,4',6-Heptachlorobiphenyl	PCBs	PCB 171; 2,2',3,3',4,4',6-Heptachlorobiphenyl	52663715
PCB171+173	Coelution of PCB 171 and 173	PCBs		
PCB172	2,2',3,3',4,5,5'-Heptachlorobiphenyl	PCBs	PCB 172; 2,2',3,3',4,5,5'-Heptachlorobiphenyl	52663748
PCB172+192	Coelution of PCB 172 and 192	PCBs		
PCB173	2,2',3,3',4,5,6-Heptachlorobiphenyl	PCBs	PCB 173; 2,2',3,3',4,5,6-Heptachlorobiphenyl	68194161
PCB174	2,2',3,3',4,5,6'-Heptachlorobiphenyl	PCBs	PCB 174; 2,2',3,3',4,5,6'-Heptachlorobiphenyl	38411255
PCB174+181	Coelution of PCB 174 and 181	PCBs		
PCB175	2,2',3,3',4,5',6-Heptachlorobiphenyl	PCBs	PCB 175; 2,2',3,3',4,5',6-Heptachlorobiphenyl	40186707
PCB176	2,2',3,3',4,6,6'-Heptachlorobiphenyl	PCBs	PCB 176; 2,2',3,3',4,6,6'-Heptachlorobiphenyl	52663657
PCB177	2,2',3,3',4,5',6'-Heptachlorobiphenyl	PCBs	PCB 177; 2,2',3,3',4,5',6'-Heptachlorobiphenyl	52663704
PCB178	2,2',3,3',5,5',6-Heptachlorobiphenyl	PCBs	PCB 178; 2,2',3,3',5,5',6-Heptachlorobiphenyl	52663679
PCB178L	13C-2,2',3,3',5,5',6-Heptachlorobiphenyl	LabeledPCB		232919674
PCB179	2,2',3,3',5,6,6'-Heptachlorobiphenyl	PCBs	PCB 179; 2,2',3,3',5,6,6'-Heptachlorobiphenyl	52663646
PCB180	2,2',3,4,4',5,5'-Heptachlorobiphenyl	PCBs	PCB 180; 2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065293
PCB180+193	Coelution of PCB 180 and 193	PCBs		
PCB181	2,2',3,4,4',5,6-Heptachlorobiphenyl	PCBs	PCB 181; 2,2',3,4,4',5,6-Heptachlorobiphenyl	74472472
PCB181+193	Coelution of PCB 181 and 193	PCBs		
PCB182	2,2',3,4,4',5,6'-Heptachlorobiphenyl	PCBs	PCB 182; 2,2',3,4,4',5,6'-Heptachlorobiphenyl	60145235
PCB182+187	Coelution of PCB 182 and 187	PCBs		
PCB183	2,2',3,4,4',5',6-Heptachlorobiphenyl	PCBs	PCB 183; 2,2',3,4,4',5',6-Heptachlorobiphenyl	52663691
PCB183+185	Coelution of PCB 183 and 185	PCBs		
PCB184	2,2',3,4,4',6,6'-Heptachlorobiphenyl	PCBs	PCB 184; 2,2',3,4,4',6,6'-Heptachlorobiphenyl	74472483
PCB185	2,2',3,4,5,5',6-Heptachlorobiphenyl	PCBs	PCB 185; 2,2',3,4,5,5',6-Heptachlorobiphenyl	52712057
PCB186	2,2',3,4,5,6,6'-Heptachlorobiphenyl	PCBs	PCB 186; 2,2',3,4,5,6,6'-Heptachlorobiphenyl	74472494
PCB187	2,2',3,4',5,5',6-Heptachlorobiphenyl	PCBs	PCB 187; 2,2',3,4',5,5',6-Heptachlorobiphenyl	52663680
PCB188	2,2',3,4',5,6,6'-Heptachlorobiphenyl	PCBs	PCB 188; 2,2',3,4',5,6,6'-Heptachlorobiphenyl	74487857
PCB188L	13C-2,2',3,4',5,6,6'-Heptachlorobiphenyl	LabeledPCB		234432918
PCB189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	PCBs	PCB 189; 2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635319
PCB189L	13C-2,3,3',4,4',5,5'-Heptachlorobiphenyl	LabeledPCB		208263734
PCB190	2,3,3',4,4',5,6-Heptachlorobiphenyl	PCBs	PCB 190; 2,3,3',4,4',5,6-Heptachlorobiphenyl	41411647
PCB191	2,3,3',4,4',5',6-Heptachlorobiphenyl	PCBs	PCB 191; 2,3,3',4,4',5',6-Heptachlorobiphenyl	74472507
PCB192	2,3,3',4,5,5',6-Heptachlorobiphenyl	PCBs	PCB 192; 2,3,3',4,5,5',6-Heptachlorobiphenyl	74472518
PCB193	2,3,3',4',5,5',6-Heptachlorobiphenyl	PCBs	PCB 193; 2,3,3',4',5,5',6-Heptachlorobiphenyl	69782918
PCB194	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	PCBs	2,2',3,3',4,4',5,5'-octachlorobiphenyl; PCB 194;	35694087
PCB195	2,2',3,3',4,4',5,6-Octachlorobiphenyl	PCBs	PCB 195; 2,2',3,3',4,4',5,6-Octachlorobiphenyl	52663782
PCB196	2,2',3,3',4,4',5,6'-Octachlorobiphenyl	PCBs	PCB 196; 2,2',3,3',4,4',5,6'-Octachlorobiphenyl	42740501
PCB196+203	Coelution of PCB 196 and 203	PCBs		
PCB197	2,2',3,3',4,4',6,6'-Octachlorobiphenyl	PCBs	PCB 197; 2,2',3,3',4,4',6,6'-Octachlorobiphenyl	33091177

PCB197+200	Coelution of PCB 197 and 200	PCBs		
PCB198	2,2',3,3',4,5,5',6'-Octachlorobiphenyl	PCBs	PCB 198; 2,2',3,3',4,5,5',6'-Octachlorobiphenyl	68194172
PCB198+199	Coelution of PCB 198 and 199	PCBs		
PCB199	2,2',3,3',4,5,5',6'-Octachlorobiphenyl	PCBs	PCB 199; 2,2',3,3',4,5,5',6'-Octachlorobiphenyl	52663759
PCB200	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	PCBs	PCB 200; 2,2',3,3',4,5,6,6'-Octachlorobiphenyl	52663737
PCB200+201	Coelution of PCB 200 and 201	PCBs		
PCB201	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	PCBs	PCB 201; 2,2',3,3',4,5',6,6'-Octachlorobiphenyl	40186718
PCB202	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	PCBs	PCB 202; 2,2',3,3',5,5',6,6'-Octachlorobiphenyl	2136994
PCB202L	13C-2,2',3,3',5,5',6,6'-Octachlorobiphenyl	LabeledPCB		105600268
PCB203	2,2',3,4,4',5,5',6'-Octachlorobiphenyl	PCBs	PCB 203; 2,2',3,4,4',5,5',6'-Octachlorobiphenyl	52663760
PCB204	2,2',3,4,4',5,6,6'-Octachlorobiphenyl	PCBs	PCB 204; 2,2',3,4,4',5,6,6'-Octachlorobiphenyl	74472529
PCB205	2,3,3',4,4',5,5',6'-Octachlorobiphenyl	PCBs	PCB 205; 2,3,3',4,4',5,5',6'-Octachlorobiphenyl	74472530
PCB205L	13C-2,3,3',4,4',5,5',6'-Octachlorobiphenyl	LabeledPCB		234446641
PCB206	2,2',3,3',4,4',5,5',6'-Nonachlorobiphenyl	PCBs	2,2',3,3',4,4',5,5',6'-nonachlorobiphenyl; PCB 206;	40186729
PCB206L	13C-2,2',3,3',4,4',5,5',6'-Nonachlorobiphenyl	LabeledPCB		208263756
PCB207	2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	PCBs	PCB 207; 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl	52663793
PCB208	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	PCBs	PCB 208; 2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	52663771
PCB208L	13C-2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	LabeledPCB		234432929
PCB209	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	PCBs		2051243
PCB209L	13C-2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	LabeledPCB		105600279
pDimethAminoBenz	p-Dimethylaminoazobenzene	SemiVolati		60117
Pebulate	Pebulate	Herbicides		1114712
PenClDiBzDioxin	Pentachlorodibenzo-p-dioxin (Total)	DioxinFura		36088229
PenClDiBzFuran	Pentachlorodibenzo-p-furan (Total)	DioxinFura		30402154
PenClPhenol	Pentachlorophenol	Phenols		87865
Pendimethalin	Pendimethalin	Herbicides		40487421
PentChloranisole	Pentachloroanisole	Pesticides	Pentachloromethoxybenzene; Pentachlorophenyl methyl ether	1825214
PentChlorBenzene	Pentachlorobenzene	SemiVolati		608935
PentChlorEthane	Pentachloroethane	SemiVolati		76017
PentChlorNitroBe	Pentachloronitrobenzene	SemiVolati		82688
PentClBiphenyls	Pentachlorobiphenyl homologs	PCBs		25429292
Percent<63um	Weight percent smaller than 63 microns	PhysChem		
PeriphChlorophR	Biomass/chlorophyll ratio	Biological		
pH	pH	PhysChem		
PhenAcAcid	Phenylacetic acid		PAA; 2-phenylacetic acid	103822
Phenacetin	Phenacetin	SemiVolati		62442
Phenanthrene	Phenanthrene	PAH		85018
Phenol	Phenol	SemiVolati		108952
PhenolD6	Phenol-d6	Phenols	(2H6)Phenol	13127883
Pheophytin	Pheophytin			
Phorate	Phorate	Pesticides		298022
Phosphate	Phosphate	Nutrients		
Phosphorus	Phosphorus	Nutrients	P	7723140
Phosphorus_PO4	Phosphorus as phosphate	Nutrients		
Phytoplankton	Phytoplankton	Biological		
PimaricAcid	Pimaric Acid	ResinAcid		
PO4	PO4	Nutrients		
Potassium	Potassium	Metals	K	7440097
Potassium-40	Potassium-40	PhysChem		
Praseodymium	Praseodymium	Lanthanide	Pr	7440100
Precipitation	Precipitation			
Prometon	Prometon	Herbicides		1610180
Pronamide	Pronamide	SemiVolati	Propyzamide; 3,5-Dichloro-N-(1,1-dimethyl-2-propynyl)benzamide	23950585
Propachlor	Propachlor	Pesticides		1918167
Propanil	Propanil	Pesticides		709988
Propargite	Propargite	Pesticides		2312358
Propionitrile	Propionitrile	Volatiles		107120
pTerphenylD14	p-Terphenyl-d14	SemiVolati		1718510
Pu239,240	Plutonium-239,240	Radionuc	Combination of Plutonium, isotope of mass 239 and 240; 239,240Pu	1,511,748,314,119,330
Pyrene	Pyrene	PAH		129000
Pyridine	Pyridine	SemiVolati		110861
Ra_226	Radium-226	Metals	Ra	13982633

Ra_Alpha	Alpha-emitting isotopes of radium	PhysChem		
Residue	Residue	PhysChem		
Residue_ac_ft	Residue, tons per acre-foot	PhysChem		
Residue_evapour	Residue on evaporation	PhysChem	TS	
Residue_filt	Dissolved Residue, total filterable	PhysChem	TDS	
Residue_filt_fix	Residue, fixed filterable (weighed after ignition of filterable residue)	PhysChem	FDS	
Residue_nonf_fix	Residue, fixed nonfilterable (weighed after ignition of non-filterable residue)	PhysChem	FSS	
Residue_nonfilt	Residue, total nonfilterable	PhysChem	TSS	
Residue_sum	Residue, sum of constituents	PhysChem		
RH	Relative humidity			
Rubidium	Rubidium	Metals	Rb	7440177
Safrole	Safrole	SemiVolati		94597
Samarium	Samarium	Metals	Sm	7440199
Sample location	Sample location			
Sample purpose	Sample purpose			
Sample volume	Sample volume	PhysChem		
Sample weight	Sample weight	PhysChem		
SampleMass	Sample Mass	PhysChem		
Sampler type	Sampler type			
Sampling depth	Sampling depth			
Sampling method	Sampling method			
Sand	Sand	GrainSize		
SandaraPimaric	Sandaracopimaric Acid	ResinAcid		
Scandium	Scandium	Metals	Sc	7440202
secButylbenzene	sec-Butylbenzene	Volatiles	(1-Methylpropyl)benzene; 2-Phenylbutane; secondary-Butylbenzene	135988
Selenium	Selenium	Metals	Se	7782492
Silica	Silica	PhysChem		7631869
Silicon	Silicon	PhysChem	Si	7440213
Silt	Silt	GrainSize		E-14615
Silver	Silver	Metals	Ag	7440224
Silvex	Silvex	Herbicides		93721
Simazine	Simazine	Herbicides		122349
Sodium	Sodium	Metals	Na	7440235
Solids	Solids	PhysChem		
SpConductance	Specific conductance	PhysChem		
SpGravity	Specific Gravity	PhysChem		
SS_flow_thru	Suspended sediment concentration, flow-through centrifuge	PhysChem		
StearicAcid	Stearic Acid	FatAcid		
Strontium	Strontium	Metals	Sr	7440246
Styrene	Styrene	Volatiles		100425
Sulfate	Sulfate	PhysChem		
Sulfate-sulfur	Sulfate-sulfur (SO4-S)	PhysChem		
Sulfide	Sulfide	PhysChem		18496258
Sulfide-AVS	Sulfide-AVS	PhysChem		18496258
Sulfotepp	Sulfotepp	Pesticides	Tetraethyl dithiopyrophosphate	3689245
Sulfur	Sulfur	PhysChem	S	63705055
SuspSedConc	Suspended sediment concentration	PhysChem		
SuspSedLoad	Suspended sediment load	PhysChem		
Tantalum	Tantalum	Metals	Ta	7440257
TDS	Total dissolved solids	PhysChem	TDS	
Tebuthiuron	Tebuthiuron	Pesticides		34014181
Tellurium	Tellurium	Metals	Te	13494809
Temperature	Temperature	PhysChem		
TEQdfBrdDL	TEQ for dioxins/furans using Van den Berg, et al. 1998 for birds (ND=DL)	TEQ		
TEQdfBrdDL/2	TEQ for dioxins/furans using Van den Berg, et al. 1998 for birds (ND=1/2DL)	TEQ		
TEQdfBrdDL0	TEQ for dioxins/furans using Van den Berg, et al. 1998 for birds (ND=0)	TEQ		
TEQdffshDL	TEQ for dioxins/furans using Van den Berg, et al. 1998 for fish (ND=DL)	TEQ		
TEQdffshDL/2	TEQ for dioxins/furans using Van den Berg, et al. 1998 for fish (ND=1/2DL)	TEQ		
TEQdffshDL0	TEQ for dioxins/furans using Van den Berg, et al. 1998 for fish (ND=0)	TEQ		
TEQdfMamDL	TEQ for dioxins/furans using Van den Berg, et al. 2006 for mammals (ND=DL)	TEQ		
TEQdfMamDL/2	TEQ for dioxins/furans using Van den Berg, et al. 2006 for mammals (ND=1/2DL)	TEQ		
TEQdfMamDL0	TEQ for dioxins/furans using Van den Berg, et al. 2006 for mammals (ND=0)	TEQ		

TEQdfpBrdDL	TEQ for dioxins/furans/PCBs using Van den Berg, et al. 1998 for birds (ND=DL)	TEQ		
TEQdfpBrdDL/2	TEQ for dioxins/furans/PCBs using Van den Berg, et al. 1998 for birds (ND=1/2DL)	TEQ		
TEQdfpBrdDL0	TEQ for dioxins/furans/PCBs using Van den Berg, et al. 1998 for birds (ND=0)	TEQ		
TEQdfpFshDL	TEQ for dioxins/furans/PCBs using Van den Berg, et al. 1998 for fish (ND=DL)	TEQ		
TEQdfpFshDL/2	TEQ for dioxins/furans/PCBs using Van den Berg, et al. 1998 for fish (ND=1/2DL)	TEQ		
TEQdfpFshDL0	TEQ for dioxins/furans/PCBs using Van den Berg, et al. 1998 for fish (ND=0)	TEQ		
TEQdfpMamDL	TEQ for dioxins/furans/PCBs using Van den Berg, et al. 2006 for mammals (ND=DL)	TEQ		
TEQdfpMamDL/2	TEQ for dioxins/furans/PCBs using Van den Berg, et al. 2006 for mammals (ND=1/2DL)	TEQ		
TEQdfpMamDL0	TEQ for dioxins/furans/PCBs using Van den Berg, et al. 2006 for mammals (ND=0)	TEQ		
TEQdffTxDL	TEQ for dioxins/furans using old Texas TEFs (ND=DL)	TEQ		
TEQdffTxDL/2	TEQ for dioxins/furans using old Texas TEFs (ND=1/2DL)	TEQ		
TEQdffTxDL0	TEQ for dioxins/furans using old Texas TEFs (ND=0)	TEQ		
TEQpBrdDL	TEQ for PCBs using Van den Berg, et al. 1998 for birds (ND=DL)	TEQ		
TEQpBrdDL/2	TEQ for PCBs using Van den Berg, et al. 1998 for birds (ND=1/2DL)	TEQ		
TEQpBrdDL0	TEQ for PCBs using Van den Berg, et al. 1998 for birds (ND=0)	TEQ		
TEQpFshDL	TEQ for PCBs using Van den Berg, et al. 1998 for fish (ND=DL)	TEQ		
TEQpFshDL/2	TEQ for PCBs using Van den Berg, et al. 1998 for fish (ND=1/2DL)	TEQ		
TEQpFshDL0	TEQ for PCBs using Van den Berg, et al. 1998 for fish (ND=0)	TEQ		
TEQpMamDL	TEQ for PCBs using Van den Berg, et al. 2006 for mammals (ND=DL)	TEQ		
TEQpMamDL/2	TEQ for PCBs using Van den Berg, et al. 2006 for mammals (ND=1/2DL)	TEQ		
TEQpMamDL0	TEQ for PCBs using Van den Berg, et al. 2006 for mammals (ND=0)	TEQ		
Terbacil	Terbacil	Pesticides		5902512
Terbium	Terbium	Metals	Tb	7440279
Terbufos	Terbufos	Pesticides		13071799
tertButylbenzene	tert-Butylbenzene	Volatiles	1,1-Dimethylethylbenzene; 2-Methyl-2-phenylpropane; tertiary-Butylbenzene; t-Butylbenzene	98066
TetClBiphenyls	Tetrachlorobiphenyl homologs	PCBs		26914330
TetClDiBzDioxin	Tetrachlorodibenzodioxin (Total)	DioxinFura		41903575
TetClDiBzFuran	Tetrachlorodibenzofuran (Total)	DioxinFura		30402143
Tetrabutyltin	Tetrabutyltin	Organomet	Tetra-n-butyltin; Tetrabutylstannane	1461252
TetraClEthene	Tetrachloroethene	Volatiles		127184
TetraCl-m-xylene	Tetrachloro-m-xylene	Volatiles	2,4,5,6-Tetrachloro-m-xylene; Benzene, 1,2,3,5-tetrachloro-4,6-dimethyl-	877098
Tetrahydrofuran	Tetrahydrofuran	Volatiles	1,4-Epoxybutane; Oxacyclopentane; Diethylene oxide; Cyclo-tetramethylene oxide	109999
TFS	Total Fixed Solids	PhysChem	TFS	
Thallium	Thallium	Metals	Tl	7440280
Thiobencarb	Thiobencarb	Herbicides		28249776
Thionazin	Thionazin	Pesticides		297972
Thorium	Thorium	Actinides	Th	7440291
Thulium	Thulium	Lanthanide	Tm	7440304
Tin	Tin	Metals	Sn	7440315
Titanium	Titanium	Metals	Ti	7440326
TKN	Total Kjeldahl nitrogen			
TOC	TOC	PhysChem		E-10195
Toluene	Toluene	Volatiles		108883
TolueneD8	Toluene-d8	Volatiles	toluene; Perdeuteriotoluene; (2H8)Toluene; Benzene-d5, methyl-d3-	2037265
Tot12DiClEthene	1,2-Dichloroethene isomers (total)	Volatiles	1,2-Dichloroethylene; Acetylene dichloride; 1,2-DCE; 1,2-Dichloroethylene, all isomers	540590
Tot13DiClPrope	1,3-Dichloropropene (total cis & trans)	Volatiles		
Total sulfur	Total sulfur	PhysChem		
Total_coliform	Total coliform	Biological		
Total_N_NO3	Total nitrogen as nitrate	Nutrients		
Total_nitrogen	Total nitrogen	Nutrients		
TotalChloride	Total chloride	Halogens		
TotalDDx	Total DDT, DDE, DDD	Pesticides		
TotalPorosity	Total Porosity	PhysChem		
TotAnt_Phe	Anthracene + Phenanthrene	PAH		
TotBaA_Chr	Unresolved combination of benz[a]anthracene and chrysene	PAH		
TotBKF_BBF	Benzo[k]fluoranthene and Benzo[b]fluoranthene	PAH		
TotChlordane	Chlordane	Pesticides	Chlordane (nonstereospecific)	57749
TotClPhenols	Total chlorinated phenols	Phenols		
TotCresols	Cresols	SemiVolati		1319773
TotDCB	Dichlorobenzene, non-specific	Volatiles	DCB	
TotDDD	sum of p,p'-DDD and o,p'-DDD	Pesticides		

TotDDE	sum of p,p'-DDE and o,p'-DDE	Pesticides		
TotDDT	sum of p,p'-DDT and o,p'-DDT	Pesticides		
TotDiazSpectr	Unresolved combination of Diazinon/Spectracide	Herbicides		
TotEndosulfan	Endosulfan	Pesticides		115297
TotHCH	Hexachlorocyclohexane	Pesticides		
TotPCBaroClorDL	Total PCB Aroclors (ND=DL)	PCBs		
TotPCBaroClorDL0	Total PCB Aroclors (ND=0)	PCBs		12767792
TotPCBaroClrDL/2	Total PCB Aroclors (ND=1/2DL)	PCBs		
TotPCBcong	Total PCB congeners (lab reported)	PCBs		
TotPCBcongDL	Total PCB congeners (ND=DL)	PCBs		
TotPCBcongDL/2	Total PCB congeners (ND=1/2DL)	PCBs		
TotPCBcongDL0	Total PCB congeners (ND=0)	PCBs		
TotPCBs	Total PCBs	PCBs		1336363
TotPCDD	Total polychlorinated dibenzo-p-dioxins	DioxinFura		
TotPCDD_PCDF	Total dioxins and furans	DioxinFura		
TotPCDF	Total polychlorinated dibenzo-p-furans	DioxinFura		
TotPentanol	Pentanol	Volatiles		
TotPersulfN	Total Persulfate Nitrogen			
TotPropanol	Propanol	Volatiles	Propanol [indefinite substitution]	62309-51-7
TotTetraClEth	Tetrachloroethanes	Volatiles	Tetrachloroethane; TCA	25322207
TotTetrClPhenols	Total tetrachlorophenols	Phenols		
TotToxDF_DL	Total toxic Dioxin/Furan congeners (ND = DL)	DioxinFura		
TotToxDF_DL/2	Total toxic Dioxin/Furan congeners (ND=1/2DL)	DioxinFura		
TotToxDF_DL0	Total toxic Dioxin/Furan congeners (ND = 0)	DioxinFura		
TotTriBrPhenols	Total tribromophenols	Phenols		25376389
TotTriClethene	Trichloroethene	Volatiles	Trichloroethylene; 1,1,2-Trichloroethylene; 1,2,2-Trichloroethylene	79016
TotTriClPhenols	Total trichlorophenols	Phenols		
Toxaphene	Toxaphene	Pesticides		8001352
TPAH	Total Polynuclear Aromatic Hydrocarbons	PAH		
TPM10	Total particulate matter with an aerodynamic mean diameter of 10 micrometers or less	PhysChem		
TPN	Polychlorinated naphthalenes	SemiVolati		
trans12DiClEth	trans-1,2-Dichloroethene	Volatiles		156605
trans13DiClPrope	trans-1,3-Dichloropropene	Volatiles		10061026
trans14Dichlor2B	trans-1,4-Dichloro-2-butene	Volatiles		110576
transChlordane	trans-Chlordane	Pesticides	beta-Chlordane;(1alpha,2beta,3alpha,4beta,7beta,7alpha)-1,2,4,5,6,7,8,8-Octachloro-	5103742
transNonachlor	trans-Nonachlor	Pesticides	2,3,3a,4,7,7a-hexahydro-4,7-methano-1H-indene;gamma-Chlordane	39765805
Triallate	Triallate	Herbicides		2303175
Tributyltin	Tributyltin	Organomet	Tri-n-butyltin hydride; Tributylstannane	688733
TriClBiphenyls	Trichlorobiphenyl homologs	PCBs		25323686
TriClFMeth	Trichlorofluoromethane	Volatiles		75694
Trifluralin	Trifluralin	Herbicides		1582098
TrivChrom	Chromium, trivalent	Metals		16065831
TSP	Total Suspended Particulates	PhysChem	TSP	
TSS	Total Suspended Solids	PhysChem	TSS	
Tungsten	Tungsten	Metals	W	7440337
Turbidity	Turbidity	PhysChem		
TVS	Total Volatile Solids	PhysChem	TVS	
Uranium	Uranium	Actinides	U	7440611
Vanadium	Vanadium	Metals	V	7440622
Vapour	Soil vapour	PhysChem		
VCoarseSand	Very coarse sand	GrainSize		
VeryFineSand	Very fine sand	GrainSize		
VH_C6-C10	Volatile Hydrocarbons with a chain length from C6 to C10	Petroleum		
VinylAcetate	Vinyl acetate	Volatiles		108054
VinylCl	Vinyl Chloride	Volatiles		75014
VPH	Volatile Petroleum Hydrocarbons	Petroleum		
Water added	Water added	PhysChem		
WatRet_1500J/Kg	Water retention @ 1500 J/kg	PhysChem		
WatRet_33J/Kg	Water retention @ 33 J/kg	PhysChem		
WatStorCap	Water storage capacity	PhysChem		
WD s.d.	Wind direction s. d.			

Wind direction	Wind direction
Wind speed	Wind speed
XSectLoc	Location in cross section
Xylenes	Xylenes
Ytterbium	Ytterbium
Yttrium	Yttrium
Zinc	Zinc
Zirconium	Zirconium

Volatiles	Dimethylbenzene; Xylenes, total; Xylenes, isomers, Xylene, mixed
Lanthanide	Yb
Metals	Y
Metals	Zn
Metals	Zr

1330207
7440644
7440655
7440666
7440677

area_type	description
Geology	Geology
HydUnit	USGS Hydrologic Unit
RM_poly	River mile reach
Select	Boundary for data selection
Site	Site
Subarea	Subarea

bioas_meas	description
AvgGrowth	Average growth (across all organisms in a lab replicate)
AvgMass	Average final mass (across all organisms in a lab replicate)
AvgSurv	Average survival
GrowthCnt	Number of organisms evaluated for growth measurement
SdGrowth	Standard deviation of growth
SdSurv	Standard deviation of survival
Survival	Survival
Young	Young produced

bioas_qual	description
GT	Greater than the value shown
LT	Less than the value shown
N	Not validated
NC	Not (cannot be) calculated
ND	No data
NV	Test Not Valid

bioas_type	description
Amp10d	Amphipod 10-day bioassay
Amp14d	Amphipod 14-day sediment bioassay
Amp28d	Amphipod 28-day sediment bioassay
Amp48d	Amphipod 48-day bioassay
BivDev48h	Bivalve larva development 48-hour bioassay
Chir10d	Chironomid 10-day sediment bioassay
Daph7d	Daphnid 7-day sediment bioassay
EchFert72h	Echinoderm fertilization 72-hour bioassay
Nea20d	Neanthes 20-day bioassay

bioas_unit	description
%	Percent
Indiv	Number of individuals
mg	Milligrams
mg_dry	Milligrams, dry weight
mg_wet	Milligrams, wet weight

bioas_var	description
Emerg	Emergence
Fert	Fertilization
Growth	Growth
NormalDev	Normal development
Reproduct	Reproductive success
Survival	Survival

boring_purpose	description
SoilSamp	Soil sampling
WellConst	Well construction

bottle_type	description
1000AG	1 liter amber glass
1000G	1 liter clear glass
1000GP	1 liter clear glass and polyethylene (HDPE)
1000GT	1 liter clear glass and Teflon
1000P	1 liter polyethylene (HDPE)
1000S	1 liter polystyrene
1000T	1 liter Teflon
125G	125 ml clear glass
125GT	125 ml clear glass and Teflon
125P	125 ml polyethylene (HDPE)
125PT	125ml polyethylene and Teflon
125T	125 ml Teflon
20G	20 ml glass
250GT	250 ml clear glass and Teflon
250P	250 ml polyethylene (HDPE)
250PT	250 ml polyethylene and Teflon
30G	30 ml clear glass
40000PUF	4 liter polyurethane foam
400G	400 ml clear glass
40G	40 ml clear glass
500FP	500 ml fluoropolymer
500G	500 ml clear glass
500P	500 ml polyethylene (HDPE)
50P	50 ml polyethylene (HDPE)
60G	60 ml clear glass
FOIL	Aluminum foil
Zbag	Ziplock bag
Zbag2	Double Ziploc bags

chem_class	description
Actinides	Actinides
Asbestos	Asbestos
Biological	Biological
DioxinFura	Dioxins and furans
Explosive	Explosive
FatAcid	Fatty Acids
GrainSize	Grain size measurements
Halogens	Halogens
Herbicides	Herbicides
LabeledPCB	isotopically labeled PCB congeners
Lanthanide	Lanthanide
Metalloids	Metalloids
Metals	Metals
Nutrients	Nutrients
Organomet	Organometallic compounds
PAH	PAH
PBDE	Polybrominated diphenyl ether (PBDE)
PCBs	PCBs
Pesticides	Pesticides
Petroleum	Petroleum Hydrocarbons
Phenols	Phenols
PhysChem	Physico-chemical measurements
Radionuc	Radionuclides
ResinAcid	Resin Acids
SemiVolati	Semivolatiles
TEQ	Toxicity Equivalent
Volatiles	Volatiles

coll_scheme	description
Boring	A soil boring, to be subsampled to produce individual samples
Core	A core, to be subsampled to produce individual samples
HWE	high wind event
Multipoint	Multiple points with designed spacing between them
Point	A single point
Quadrat	A limited area that was sampled exhaustively or systematically
SurfGrab	A grab sample of surface sediment or soil
Transect	A line or set of points along a line
USGS EDI	USGS equal-discharge-increment method

composite_type	description
Composite	Composite
Integrated	Time integrated air sampling
Multicoll	Multiple items collected at the same location and time
Multipoint	Multiple spatial points sampled
Multitemp	Multiple times sampled
None	None
Single	Uncomposited: a single sample

conc_qual	description
#	lab qualifier
*	lab qualifier
D	lab qualifier (first seen in K1012252 matrixspike)
J	estimated (for organics)
K	lab qualifier (first seen in K1011248 matrixspike)
N	lab qualifier (first seen in K1005175 matrixspike)
U	lab qualifier (first seen in K1012914.01 lcs)
X	lab qualifier (first seen in K1011127 lcs)

coord_qual	description
Ambiguous	Coordinates are ambiguous due to incomplete or conflicting information.
AssumNAD27	The coordinate system was not specified in the original data source, and was assumed to be NAD27.
AssumNAD83	The coordinate system was not specified in the original data source, and was assumed to be NAD83.
CoordUnkn	The coordinate system was not specified in the original data source, and is not known.
Estimated	Coordinates not provided. Values used are an estimate and/or surrogate derived from a nearby cluster of provided values.
Geocoded	Geocoded street address or other location attribute.

data_class	description
Aerial photo	Aerial photo
Bathymetry	Subaqueous surface contours
Boundary	Non-specific spatial boundary
Contour boundary	Elevation boundary
Geology	Geological data: soil or mineral characterization
Grid	Grid for data specification or summarization
Habitat	Habitat locations
Hypsography	Elevation (altitude) data
Land use	Land use classification
Parcels	Parcel or other property boundaries
RM_Poly	River mile polygon
Roads	Roads, highways, etc.
Sample points	Sampling locations
Sample transects	Sampling transects
Selection bound	Boundary of an area to be used for data selection
Site	Site boundary
SWMU	Solid Waste Management Units
Vegetation	Vegetation locations
Waterways	Lakes, rivers, streams, etc.

data_format	description
Database	Coordinates are stored in the database
GeoPNG	Georeferenced Portable Network Graphics file
GeoTIFF	Georeferenced Tagged Image File Format
Gridfile	ESRI grid data file
Shapefile	ESRI shapefile
XYtable	Data table with coordinates

data_status	description
Complete	The information is complete
Incomplete	The information is not complete
Unavailable	The informaton is unavailable

dimension	description
#	Count or number
#/A	Number per area
#/M	Number per mass
#/V	Number per volume
A	Area
A/M	Radioactivity per mass
C	Conductance
C/L	Conductance per distance
Color	Colour
D	Radioactivity decay rate
D/M	Radioactivity decay rate per mass
D/V	Radioactivity decay rate per volume
EMF	Electromotive force
FTU	Formazin Turbidity Unit
JTU	Jackson Turbidity Unit
L	Length
L/T	Length per time
M	Mass
M/A	Mass per area
M/M	Mass per mass (concentration)
M/T	Mass per time
M/V	Mass per volume (concentration)
N	None (fraction or dimensionless)
NA	Not applicable
NA_co	Not applicable because numeric value is a code
NA_un	Not applicable because units are unknown
NTU	Nephelometer Turbidity Unit
OA	Optical absorbance
P	Temperature
Pa	Pressure
PHU	pH unit
PIAng	Plane angle
Q/M	Equivalents per mass
Q/V	Equivalents per volume
SU	Standard pH units
T	Time
V	Volume

V/T	Volume per time
V/V	Volume per volume
X	temp

doc_cat	description
NA	Not applicable

doc_type	description
Book	Book
Chapter	Book chapter
COCform	Chain of Custody form
CommLit	Commercial literature
Conference	Conference presentation
Datafile	Electronic computer file of data
Deposition	Deposition
E-file	Electronic (digital) file
e-mail	e-mail message
ExpReport	Expert report (for litigation)
FieldBook	Field sampling notebook
FieldForm	Field sampling form(s)
GovReport	Government report or guidance document
IntReport	Internal report/document
LabData	Laboratory data package
LawReg	Law or regulation
Letter	Letter
Memo	Memorandum
News	Newspaper article
Order	Legal order or agreement
Paper	Peer-reviewed scientific paper
PersComm	Personal communication
Photo	Photograph
Report	Grey literature report
SOP	Standard Operating Procedure
SOQ	Statement of qualifications or proposal
Spreadsheet	Spreadsheet (computer file)
Thesis	Thesis
URL	Internet URL (address)
WorkPlan	Work plan

gear	description
0.1m2vanVeen	0.1 m2 vanVeen grab
0.5 m2 Ponar	0.5 m2 Ponar grab
Auger	Auger
Benthos	(Unknown)
BoxCore_0.1	0.1 m2 box corer
BoxCore_14	Box corer 14x14 cm
DeepBoxCorer	Box corer 13.5 x 13.5 x 23 cm
DredgeSmplr	Dredge Sampler (e.g. Ponar, Van Veen, or Ekman)
Ekman	Ekman grab
FloodPlain	Flood Plain
Gillnet	gillnet
Grab	discrete sample taken from any media
GravCorer	Gravity corer
HandCore	hand core sampler
Infiltrex	Infiltrex high volume water sampler
ISCO6712FR	Isco's fiberglass, sequential or composite, refrigerated water sampler
Observation	Observation -- no gear
PetitePonar	Petite Ponar grab
PipeDredge	Stainless steel pipe dredge
PistonCorer	Piston corer
PM10	particulate matter with an aerodynamic mean diameter of 10 micrometers or less high-volume air sampler
PolyScoop	Polyurethane Scoop
PonarGrab	Ponar Grab (no further specifications)
PotTrap	crab/fish/lobster/shrimp/... pot
River/Stream	River/Stream
SecchiDisk	Secchi disk
Shovel	Stainless steel shovel/trowel
Spoon	Stainless steel spoon and bowl
vanVeen	van Veen grab
VanVeen_0.2	0.2 m2 Van Veen grab
VibraCorer	VibraCorer

field_meas_method	description
Barometer	Aneroid barometer
CondSensor	Specific conductance by conductivity sensor
DataLogger	Data Logger (transducer)
EPA_120.1	Specific conductivity (conductance) by conductivity meter @ 25 deg C
EPA_150.1	pH, Electrometric
EPA_360.2	Dissolved Oxygen (DO) by Modified Winkler Full Bottle
Jackson	Jackson candle turbidimeter
LabCalc	Numerical value was calculated in lab from other data available.
pH_glass	pH using glass electrode
pH_meter	Field pH meter/electrode
SM2510B	Specific conductivity (field method)
SM4500H+B	pH by Electrometric Method
SM4500OC	Dissolved Oxygen (DO) by Winkler (Azide Modification)
StageRating	Estimated using a stage-discharge rating curve
StreamGage	Gaging station
THERM	Thermometer (mercury)
Thermistor	Thermistor
Turbidimeter	Nephelometric turbidimeter
Unk	Unkown
UVAD	UV Absorbance of a specific wave length with a UV detector

field_prep_method	description
<63_um	A fraction of <63-µm obtained by sieving a bulk sample aliquot for 15 min through a 63-µm polyester screen
ADS_2mm	Air dried for two days and sieved through #10 (2 mm) mesh.
Centifuged	Centrifuged
CFP	Centrifuged, Filtered, and Preserved
DFO_Disct	Environment Canada's dissection protocol
F	Filtered
FDPS_2mm	Freezed dried and sieved through 2 mm polyester screen to remove large material
FP	Filtered and Preserved
	Flushed and purged with pure nitrogen gas. Centrifuged. Filtered through 0.45 micron filter.
N_FCFA	Acidified with ultra-pure nitric acid.
N_FCFr	Flushed and purged with pure nitrogen gas. Centrifuged. Frozen dry with dry ice.
USEPA_Dsct	USEPA 2000 dissection protocol
WetSieved	Wet sieved

geometry_type	description
Line	Line features
Multiline	Multi-part line features
Multipoint	Multi-part point features
Multipoly	Multi-part polygon features
Point	Point features
Polygon	Polygon features
Raster	Raster

guideline_type	description
freshwater	freshwater
marine	marine

lab	lab_name	street	city	state	postal_code	contact	province	country
A4 Scienti	A4 Scientific							
ALS	ALS Environmental	201-1571 Bellevue Ave.	West Vancouver		V7V 1A6	Rob Hoogendoorn		
ALS_LabGrp	ALS Laboratory Group							
ALTA	ALTA ANALYTICAL LABORATORY INC							
ARI	Analytical Resources, Inc.							
ASL	CH2M-Hill bioassay laboratory							
Bonner	Bonner							
Cantest	Cantest	4606 Canada Way	Burnaby		V5G 1K5			
CAS_K	Columbia Analytical Services, Kelso		Kelso	WA				
CASH	Columbia Analytical Services, Houston	19408 Park Row, Suite 320	Houston	TX	77084			
Ceimic Cor	Ceimic Corporation							
EcyMan	Ecology Manchester Lab		Manchester	WA				
eLab	e-Lab, Inc.		Houston	TX				
EMSL_SL	EMSL Analytical, Inc., San Leandro	2235 Polvorosa Ave, Suite 230	San Leandro	CA	94577	Daniel Kocher		
ENSECO	Enseco, West Sacramento, CA (n							
EPA_ERL	EPA Environmental Research Lab							
Field	Field Lab							
Laucks	LAUCKS TESTING LABS SEATTLE							
LLL	Lawrence Livermore Laboratory							
Manchester	Manchester Environmental Laboratory							
Maxxam	Maxxam							
NWA	Northwest Aquatic Sciences							
NWDLS	North Water District Laboratory Services							
PacAna	PACIFIC ANALYTICAL							
PACE	PACE							
		5-11720 Voyageur Way						
		5-11720 Voyageur Way						
		RICHMOND, British Columbia						
PacSoil	Pacific Soil Analysis Inc	V6X 3G9	Richmond		V6X 3G9			
Paradigm A	Paradigm Analytical Labs							
PSC	PSC Philips Analytical Laboratory							
Rosa	Rosa Environmental & Geotechnical Lab		Seattle	WA				
Sentinel	Sentinel Inc.		Huntsville	AL				
SRL-W	Savannah River Laboratory (Western Region Protocol)							
STL	STL							
TriLabInc	TRIANGLE LABORATORIES INC							
Unk	Unknown							
Unk_USGS	USGS unknown lab							
USGS_CERC	USGS Columbia Environmental Research Center		Columbia	MO				
USGS_ML	USGS Minerals Laboratory		Denver	CO				
USGS_WWSC	USGS Washington Water Science Center, Field Service Unit		Lakewood	WA				
USGSD	U.S. Geological Survey laboratory in Denver, Colorado		Denver	CO				
WAS	Warfield Analytical Services							
WESTON	WESTON Laboratory		Carlsbad	CA				
Xenco	Xenco							

lab_extraction_method	description
0.1 N HCL	0.1 N HCL extract
AcHx	Acetone/Hexane extraction
APDC_MIBK	1-pyrrolidinedicarbothioic acid and methyl isobutyl ketone
ARD	aqua regia digestion
Bray	Bray (NH ₄ F) extraction
CaCl ₂	Calcium chloride extract
CH ₃ COONH ₄	Ammonium acetate extract
CLAA	CLAA
CLFAA	CLFAA
EPA3050B	EPA strong acid digestion
EPA3520C	EPA3520C
EPA3535	Solid-Phase Extraction
EPA3535A	Solid-Phase Extraction
EPA3541	Automated Soxhlet Extraction
EPA5030	Purge-and-Trap for Aqueous Samples
Meth	Methanol extraction
Recov	Acid digestion for total recoverable analyses
SALM	Strong Acid Leachable Metals (SALM) drying the sample at 60°C, sieving using a 2-mm mesh sieve, and digestion using a mixture of hydrochloric and nitric acids.
SEM	Simultaneously extractable metals
SSE	Sequential Selective Extraction (European Commission of Standards, Measurements, and Testing - Rauret et al., 2001)
StrongAc	Strong acid digestion
T20	Total digestion using 4 acids: hydrochloric, nitric, perchloric, and hydrofluoric acids (lab code T20 as described in Briggs and Meier, 2002)

instrument_type	description
BALANCE	Balance
COLOR	colormetric
CVAA	cold vapor atomic absorption
D2216	Water (Moisture) Content of Soil and Rock by Mass
D854	Specific Gravity of Soil Solids by Water Pycnometer
GC	gas chromatography
GC/ECD	gas chromatography/electron capture detector
GC/MS	gas chromatography/mass spectrometry
GC/MS SIM	gas chromatography/mass spectrometry with selective ion monitoring
GRAV	gravimetric
HRGC/HRMS	high resolution gas chromatography/high resolution mass spectrometry
ICP-AES	inductively coupled plasma atomic emission spectroscopy
ICP-MS	inductively coupled plasma mass spectrometry
Lipids	Lipids
PLM	polarized light microscope
TOC-C	total organic carbon by combustion
WalkleyBlk	Walkley-Black

lab_anal_method	description
110dry	dried at 110°C
1N AmmAcet	1N ammonium acetate, pH=7
6010	EPA Method 6010 (ICP)
8081	EPA SW846 8081 for PCBs
8260	EPA SW846 8260 for VOCs
8270	EPA SW846 8270 for SVOCs
9060	EPA SW846 9060 for TOC
AAS	Atomic Absorption Spectrometry
AD	AD
AES	Atomic Emission Spectrometry
AOAC996.06	Association of Analytical Chemists method for lipids
ASF	Automated Segmented Flow Spectrophotometry
ASTMD42263	ASTM D 422-63 for grain size
AVS	Acid-Volatile Sulfide
CanSoil	CanSoil
CARB435	Asbestos by PLM
CLP SOW	based on SW846 method 6010B/7471
CLP_LOW	CLP_LOW
COLOR	colorimetric determination
CombCO2	CombCO2
CombGas	CombGas
CombSO2	Combustion at 1350°C - measurement of evolving SO2 using infrared detector
CombVol	CombVol
CondCell	Conductivity Cell
CSAC	Calibration self-absorption curves prepared using radioactive standards
CVAA	Cold Vapor Atomic Absorption
CVAAS	Cold Vapour Atomic Absorption Spectrophotometry
CVAF	Cold Vapour Atomic Fluorescence
	Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock
D2216	by Mass
D422	D422
D854	Standard Test Methods for Specific Gravity of Soil Solids by Water Pycnometer
DNC	Delayed Neutron Counting
EP1_206.2	EP1_206.2
EP1_270.2	EP1_270.2
EP1_279.2	EP1_279.2
EPA_160.1	TDS; Residue, Filterable (Gravimetric, Dried at 180 °C)

EPA_160.2	Residue, Total, Gravimetric, Dried at 103-105 Deg-C, EPA160.2
EPA_160.3	Residue, Total, Gravimetric, Dried at 103-105 Deg-C, EPA160.3
EPA_1600	Enterococci in Water by Membrane Filtration Using mEI Agar
EPA_200.7	EPA_200.7
EPA_200.8	EPA 200.8 (ICP-MS)
EPA_202.1	EPA_202.1
EPA_206.2	EPA_206.2
EPA_213.2	EPA_213.2
EPA_220.2	EPA_220.2
EPA_236.1	EPA_236.1
EPA_239.2	EPA_239.2
EPA_243.1	EPA_243.1
EPA_245.5	EPA_245.5
EPA_245.7	Mercury by Cold Vapor Atomic Fluorescence (CVAF)
EPA_279.2	EPA 279.2 (GFAA)
EPA_289.2	EPA_289.2
EPA_310.2	Alkalinity (Colorimetric, Automated, Methyl Orange)
EPA_350.1	Nitrogen as Ammonia, Colorimetric, Automated Phenate
EPA_351.2	Total Kjeldahl Nitrogen Colorimetric, Semi-Automated Block Digester
EPA_353.2	Nitrogen, Nitrate-Nitrite (Colorimetric, Automated Cadmium Reduction)
EPA_360.2	Dissolved Oxygen (DO) by Modified Winkler Full Bottle
EPA_365.1	Phosphorus, All Forms (Colorimetric, Automated, Ascorbic Acid)
EPA_365.3	Phosphorus, (All Forms), Colorimetric, Ascorbic Acid, Two Reagent
EPA_415.1	Organic Carbon, Total, Combustion or Oxidation
EPA_415.2	TOC
	Determination of Carbon and Nitrogen in Sediments and Particulates of Estuarine/Coastal Waters
EPA_440	Using Elemental Analysis
EPA_7740	EPA_7740
EPA1613A	EPA Standard Method for High Resolution Analysis of Dioxins/Furans in Water
EPA1613B	EPA Standard Method for High Resolution Analysis of Dioxins/Furans
	Chlorinated Biphenyl Congeners in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS
EPA1668A	(revision A)
EPA245.1	Mercury (Cold Vapor, Manual)
Evapour	Evaporation
FES	Flame Emission Spectroscopy
Filter	Filtration
Freeze Dry	Freeze Dried Solids
FS	Fluorometry (Fluorescence Spectroscopy)

FTC	Flow-through centrifuge
g_count	gamma counting
GC_ECD	Gas Chromatography with Electron Capture Detector
GC_FID	Gas Chromatography with Flame Ionization Detector
GC_MS	Gas Chromatography Mass Spectrometry
GFAAS	Graphite Furnace Atomic Absorption Spectrometry
Grav	Grav
HGAAS	Hydride Generation Atomic Absorption Spectroscopy
Hi-Bismuth	Hi-Bismuth reducible method
HiVol_PM10	Total Suspended Particulate matter less than 10 um in diameter trapped in a high volume air sampler.
HydGen	HydGen
IC	Ion Chromatography
ICAP	Inductively Coupled Argon Plasma Spectroscopy
ICP_MS	ICP Mass Spectrometer
ICP_OES	Inductively coupled plasma – optical emission spectrometer
ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) for Metals and Trace Elements, SW6010
INAA	instrumental neutron activation analysis
ION	sodium carbonate-potassium nitrate fusion-specific ion electrode
IR	Infrared analyses
ISE	Ion selective Electrode
KFstrep_MF	KF streptococcus MF
Klute	Klute, A. 1986. Water retention: Laboratory methods. Agronomy No. 9. American Society of Agronomy.
LECO CR 12	LECO CR 12 carbon analyzer
LECO S	LECO Sulfur Analyser
LloydKahn	Determination of Total Organic Carbon in Sediment
mEndo_MF	m-Endo MF
mEnterococcus MF	m-Enterococcus MF
mFC_MF	mFC MF
NA	Not applicable (lab calculation or non-specified analytical method)
NAA	Neutron Activation Analysis
NADNC	Neutron Activation with Delayed Neutron Counting
NOAA LIPID	NOAA LIPID
PartSize	Particle size is determined using the pipette method. The sand content is determined by wet sieving.
Perkin-Elm	Perkin-Elmer atomic absorption spectrophotometer

pH	pH
pH_meter	Potentiometric pH meter
PID	PID
Planchet_C	Planchet count
PSEP	PSEP
	Puget Sound Estuary Protocols, Conventional Sediment Variables, Particle/Grain Size by Sieve-
PSEP_GrSz	Pipette, 1986, Minor Rev. 2003
PSEP_TOC	PSEP_TOC
PSEP_TOCM	PSEP_TOCM
Radon	Radon method
Sieved	Dry sieved
SievePipet	SievePipet
SM2510B	Specific conductivity
SM2540D	Total Suspended Solids (TSS) Dried at 103 -105 deg C
SM4500NB	Total Persulfate Nitrogen
SM4500NH3H	Nitrogen (as Ammonia, NH3) by Flow Injection Analysis
SM4500NO3I	Nitrogen (Nitrate, NO3/Nitrite, NO2) by Cadmium Reduction Flow Injection Method
SM4500PG	Phosphorus/Orthophosphate by Flow Injection Analysis
SM4500PI	Total Phosphorus by In-Line UV/Persulfate Digestion and Flow Injection Analysis
SM5310C	Organic Carbon by Persulfate-Ultraviolet or Heated-Persulfate Oxidation
SM9222D	Fecal Coliform by Membrane Filtration using mFC Medium
	Contract Laboratory Program Statement Of Work for Multi-Media, Multi-Concentration Dioxins and
SOWDLM01.4	Furans Analysis
	Contract Laboratory Program Statement Of Work for the isolation, detection, and quantitative
	measurement of 23 target analyte metals (including mercury) and cyanide in both water and
SOWILM05.3	soil/sediment environmental samples. Analyses are performed using Induct
	Contract Laboratory Program Statement Of Work for Multi-Media, Multi-Concentration for Organic
SOWOLM04.3	Analysis
SpectrpPho	Spectrophotometrically
SW6020	SW-846 Inductively Coupled Plasma-Mass Spectrometry
SW7470A	Mercury in Liquid Waste (Manual Cold-Vapor Technique)
SW7471	SW-846 Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)
SW8082	SW-846 Polychlorinated Biphenyls (PCBs) by Gas Chromatography
	Polychlorinated Dibenzo-P-Dioxins And Polychlorinated Dibenzofurans By High Resolution Gas
SW8280	Chromatography/Low Resolution Mass Spectrometry (HRGC/LRMS)
	Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs) by High-
SW8290	Resolution GC/High Resolution MS

SW9012	Total and Amenable Cyanide (Automated Colorimetric)
THERM	Thermometrically
Titration	Titration
Turbid	turbidimetry
TX1005	TCEQ Method used in lieu of EPA Method 418.1 for the analysis of total petroleum hydrocarbons
Unk	Unknown
WalkleyBlk	Walkley-Black method for the determination of total organic carbon
WetOx	Wet oxidation
XRF	X-Ray Fluorescence

lab_prep_method	description
0_45u	Trapped on 0.45u membrane filter
-100 Mesh	Sieved to <150 microns (-100 mesh) and dried at 110°C. Analytical sample comprises fractions 500 to 1000 um.
10HCl	Treatment with 10% HCl to remove inorganocarbonates
2mm sieve	Air dried or dried at < 40C, pinned and sieved through a 2mm sieve
BlockDgst	3051 USEPA method: microwave assisted acid digestion of sediments, sludges, soils and oils.
CARB435	Block digest
Dry sieved	Milling
Jirka	Dry sieved
Kjeldahl	Digestion using the modified Jirka method
modJirka	Kjeldahl digestion
NaOCl	Digestion using the modified Jirka method
PartSize	Sodium hypochlorite treatment to destroy organic matter.
Sieved65um	Organic matter is removed using sodium hypochlorite
uKjeldahl	Sieved to less than 65 um.
WetOxDig	Microkjeldahl Digestion
	Non-heated sample subjected to an oxidative digestion, followed by reduction and aeration.

lcs_type	description
L	Liquid
S	Solid

lab_leach_method	description
TCLP	Toxicity Characteristic Leaching Procedure

lesion_severity	description
Absent	Absent
Evaluated	Evaluated
Minor	Minor
Moderate	Moderate
Present	Present
Severe	Severe

lesion_type	description	carcinoma
ATLY	Autolysis	FALSE
BCF	Basophilic cellular focus	TRUE
BGP-HP	Blue-green pigment (lipofuscin) in cytoplasm of hepatocytes	FALSE
BGP-ST	Blue-green pigment (lipofuscin) in cells lining seminiferous tubules	FALSE
BGR	Branchial granulomatous inflammation	FALSE
BLSP	Black spots	FALSE
CBH	Cholangitis/biliary hyperplasia	FALSE
CC	Cutaneous copepod	FALSE
CCF	Clear cellular focus	TRUE
CFF	Caudal fin fraying	FALSE
CFR	Caudal fin reddening	FALSE
CON	Congestion	FALSE
CUE	Cysts of unknown etiology	FALSE
DFM	Deformed	FALSE
DSR	Diffuse skin reddening	FALSE
ECF	Eosinophilic cellular focus	TRUE
EGL	Eosinophilic granular leukocytes	FALSE
EPC	Epitheliocystis	FALSE
ERS	Erosion	FALSE
EXPHTH	Exophthalmic	FALSE
FBG	Foreign body granuloma	FALSE
FBR	Fin base reddening	FALSE
FDC	Focal discoloration	FALSE
FPL	Focal/multifocal parenchymal leukocytes	FALSE
FRAY	Frayed	FALSE
FSR	Focal skin reddening	FALSE
GD	Glycogen depletion	FALSE
GGR	Gonadal granulomatous inflammation	FALSE
GLF	Gill lamellar fusion	FALSE
GLH	Gill lamellar hyperplasia	FALSE
GLT	Gill lamellar telangiectasis	FALSE
GMA	Gonadal macrophage aggregates	FALSE
HMR	Bleeding	FALSE
HVW	Hyalinization of vessel walls	FALSE
ICH	Diffuse opaque epicardium consistent with a parasite reaction	FALSE
KGR	Granulomatous inflammation	FALSE
KMA	Pigmented macrophage aggregates	FALSE

LCH	Leeches	FALSE
LEL	Lamellar epithelial lifting	FALSE
LGR	Liver granulomas	FALSE
LIP	Lipidosis	FALSE
LLG	Growth on lower lip	FALSE
LMA	Macrophage aggregates	FALSE
MIN	Mineralization	FALSE
MIS	Missing	FALSE
MRGN	Marginate	FALSE
NEO	Neoplasia (neoplasms)	TRUE
NPH	Nephritis	FALSE
NRM	Normal	FALSE
OAI	Atresia of primary (unfolled) follicles;	FALSE
OAM	Atresia of yolked (maturing or mature) follicles;	FALSE
OFF	Other fin fraying	FALSE
OPQ	Opaque	FALSE
OTHER	Other	FALSE
PALE	Pale	FALSE
PCL	Pericholangial lymphocytes/leukocytes	FALSE
PIG	Abundant well-demarcated cytoplasmic green pigment (hemosiderin)	FALSE
PRST	Parasites	FALSE
PVL	Perivascular lymphocytes/leukocytes	FALSE
RAK	Raker inflammation	FALSE
RGR	Raised growths	TRUE
RLSN	Reddened lesions	FALSE
RTN	Renal tubular necrosis	FALSE
RTR	Renal tubular regeneration	FALSE
SCN	Single cell necrosis	FALSE
SGF	Shiny gill foci at the base of filaments	FALSE
SH	Spongiosis hepatis	FALSE
SLN	Swollen nare	FALSE
SLSH	Slight shorteninc	FALSE
SPDF	Spinal deformities	FALSE
SPM	Spermatocytes	FALSE
TDI	Tubular dilation (of lumen)	FALSE
TEP	Renal tubular epithelial protein droplets	FALSE
TEV	Tubular epithelial vacuolation	FALSE
THR	Thrombosis	FALSE

TMT	Monogenetic trematode	FALSE
ULR	Growth on upper lip	FALSE
WSP	White spots	FALSE

life_stage	description
Adult	Adult
Egg	Egg
Indet	Indeterminate
Juv	Juvenile
Larva	Larva
ND	Not determined
Unknown	Unknown

loc_method	description
Coord	Coordinates from original data source
Design	Set by study design
Dgtz	Digitized from a map or figure
GPS	GPS measurement
Mult	Set by multiple methods
Narr	Estimated based on narrative description and map features
Original	Coordinates from original data source
Study	Set by study-specific data
Survey	Ground survey

loc_type	description
Bank	River bank
Beach	Beach
Regional	Regional
Residential	Residential

material	description
Air	Air
DrinkingWater	Drinking water
FreshWater	Fresh water
Inorg	Non-specific inorganic material
MarineWater	Marine water
Sediment	Sediment (fresh or marine)
Slag	Slag
Soil	Soil
SurfaceWater	Surface water
Tissue	Tissue
Waste	Solid or liquid industrial waste
Water	Water (fresh or marine)

matrix	description
L	Liquid
M	Mixed Liquid and Soild
S	Solid
V	Vapor

meas_basis	description
	Ambient observation, e.g. wind speed - not related to a sample and not to be confused with a field
AmbObs	measurement of a sample.
AsReceived	As received
Dissolved	Dissolved (filtered sample)
DryNoAsh	Ash free dry mass
DryWt	Dry weight
Extrctble	Extractable (not filtered but preserved with concentrated nitric acid)
PerSamp	Per sample
Susp	Suspended
Susp>1um	Suspended (> 1 um)
Susp>40um	Suspended (>40 um)
TOC	oc normalized
Unfilt	Unfiltered (whole water sample)
WetWt	Wet weight

out_flag	description
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N	No
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Y	Yes
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preservative	description
Formalin	Formalin
Frozen	Frozen
H2SO4	Sulfuric acid
HCl	Hydrochloric acid
HgCl2	Mercuric chloride
HNO3	Nitric acid
IsoProp	Isopropanol
Lugols	Lugol's solution
Na2S2O3	Sodium thiosulfate
Na2SO3	Sodium sulfite
NaBis	Sodium bisulfate
NaOH	Sodium hydroxide
None	No preservative used.
ZnAc	Zinc acetate

qa_level	description
NoQA	No quality assurance check performed (completed)
Stage 1	Verification and validation checks for the compliance of sample receipt conditions, sample characteristics (e.g., percent moisture), and analytical results (with associated information).
Stage 2A	Stage 1 validation plus the verification and validation checks for the compliance of sample-related QC.
Stage 2B	Stage 2A validation plus the verification and validation checks for the compliance of instrument-related QC.
Stage 3	Stage 2B validation plus the recalculation of instrument and sample results from the laboratory instrument responses, and comparison of recalculated results to laboratory reported results.
Stage 4	Stage 3 validation plus the evaluation of instrument outputs. Compound and TIC identification is checked.
Unknown	Unknown whether any quality assurance checks have been performed
UnkType	Quality assurance check performed, but type unknown
Validated	Data Verified, Validated, and Assessed for Usability in a Peer-Reviewed Study Report

qc_type	description
BaitBlank	Bait blank (bait used for tissue collection)
BottleBlank	Bottle blank
EquipBlank	Equipment blank
LCS	Laboratory Control Sample
LCSDUP	Laboratory Control Sample Duplicate
MatSpike	Matrix spike
MatSpikeDup	Matrix spike duplicate
MethodBlank	Method Blank
Natural	Natural sample; not a QC sample
ReagBlank	Reagent blank
RinseBlank	Rinsate blank
SRM	Standard Reference Material
TripBlank	Trip blank
WipeBlank	Wipe blank

resource	description
avian	avian
birds	birds
earthworm	earthworms
H. azteca	H. azteca
humanscs	humans consumption
humansdw	humans drinking water
invert	Invertebrates
mammal	mammal
microorg	microorganisms
plant	plants

river_bank	description
Center	Center of river, between banks
East	East
Left	Left bank (looking upriver)
Mid	Mid
North	North
Right	Right bank (looking upriver)
West	West

sample_material	description	material	matrix
Air	Air	Air	L
Barbels	Barbels	Tissue	S
Body	Body	Tissue	S
Edible	body without guts or shell	Tissue	S
Fillet	Fillet, muscle tissue only	Tissue	S
FilletLfSkOff	Fillet: left side, skin off	Tissue	S
FilletLfSkOn	Fillet: left side, skin on	Tissue	S
FilletRtSkOff	Fillet: right side, skin off	Tissue	S
FilletRtSkOn	Fillet: right side, skin on	Tissue	S
FilletSkOff	Fillet, skin off	Tissue	S
FilletSkOn	Fillet, skin on (no scales if large)	Tissue	S
Fins	Fins	Tissue	S
FishGullet	Fish gullet	Tissue	S
FishOffal	Fish organs	Tissue	S
ForestSoil	Forest soil	Soil	S
GrassSoil	Grass soil	Soil	S
Groundwater	Groundwater	Water	L
GutlessBody	Gutless whole body	Tissue	S
Head	Head	Tissue	S
Leachate	Leachate	Water	L
LeftEye	Left eye	Tissue	S
LeftGill	Left gill	Tissue	S
Opercula	Opercula	Tissue	S
Periphyton	Periphyton	Tissue	S
Porewater	Sediment porewater	Water	L
Porewater_xxx	PoreWater	Water	L
Remainder	remaining tissue after fillet or edible part has been removed	Tissue	S
ResidentialSoil	Residential soil	Soil	S
RightEye	Right eye	Tissue	S
RightGill	Right gill	Tissue	S
RinseWater	Rinsate water (for QC)	Water	L
Sed and Surfwater	Sediment with intact surface water	Water	M
Sediment	Sediment	Sediment	S
Sediment<177um	Sediment < 177 um	Sediment	S
Sediment<2mm	Sediment < 2 mm	Sediment	S
Sediment<62.5um	Sediment < 62.5 um	Sediment	S
Sediment<63um	Sediment fraction < 63um	Sediment	S

Sediment<75um	Sediment < 75 um	Sediment	S
Sediment>75um	Sediment > 75 um	Sediment	S
Slag	Slag	Slag	S
Sludge	Sludge	Waste	M
Soil	Soil	Soil	S
StomachContents	Material removed from stomach of organism	Tissue	S
Stormwater	water runoff collected after a precipitation event	Water	L
SulfateBlank	Sulfate blank (for lab QC analyses)	Inorg	S
Supernatant	Supernatant	Water	L
Surfwater	Surface water	Water	L
SuspendedSed	Suspended sediment	Sediment	S
Talus	Talus	Soil	S
TissBlank	Tissue blank (for lab QC analyses)	Tissue	S
TransitionalSoil	Transitional soil	Soil	S
UrbanSoil	Urban soil	Soil	S
Wastewater	Effluents or other industrial waste	Waste	L
Water	Water	Water	L
WholeFish	Whole fish	Tissue	S
WholeFishEst	Whole fish estimated from measurements of individual tissues	Tissue	S
Wipes	Equipment wipes (for field QC analyses)	Inorg	S

samp_measurement	description
Age	Age
BaromPressure	Barometric pressure
Color	Color
Conductivity	Conductivity
Discharge	Discharge
Discharge_inst	Discharge, instantaneous
Dissolved_gas	Dissolved gas
Dissolved_oxygen	Dissolved oxygen
DO_percent_satur	Dissolved oxygen, percent of saturation
DTW_Level	Depth to water level
Flow_volume	Flow volume
Gage_height	Gage height
Gas_Pressure	Total Gas Pressure
H_ion	Hydrogen ion
Length	Length, e.g. of a fish
Loc_x_section	Distance from left bank looking downstream
Na_Adsorp_Ratio	Sodium adsorption ratio
ORP	RedOx Potential
pH	pH
Precip_total	Precipitation, total
Salinity	Salinity
Sample_Vol	Sample volume
Secchi	Secchi depth
SS_discharge	Suspended sediment discharge
Temp_amb_air	Temperature, ambient air
TempDailyAvg	Temperature, daily average
TempDailyMax	Temperature, daily maximum
TempDailyMin	Temperature, daily minimum
Temperature	Temperature
Turbidity	Turbidity
UV_Abs254	UV Absorbance, 254 nm
UV_Abs280_org	UV Absorbance, 280 nm, organic constituents
Weight	Weight, e.g. of a fish

sample_treatment	description
Chao_Zhou	0.25 M NH ₂ OH HCl treatment at 50°C
incubated	Aqueous elements potential release simulation
	Aqueous elements potential release simulation & Sediment exposure to site water under a Higher
incubated & tumbled	Energy Tumbling experiment

sex	description
B	Both sexes present
F	Female
H	Hermaphrodite
I	Indeterminate
M	Male
N	Not evaluated
X	Female intersex
Y	Male intersex

shipping_method	description
FedEx	Federal Express
Greyhound	Greyhound bus lines
Other	Other: specify in shipping details
Sampler	Transported by the sampler
Trailways	Trailways bus lines
UPS	United Parcel Service

soil_horizon	description
A	Upper layer of topsoil
B	Subsoil
C	C horizon
D	D horizon
E	Eluviated horizon
O	Organic horizon
R	Bedrock

srid	description	srtext
2278	NAD83, TX South Central, GRS 1980 spheroid, feet	"PROJCS["NAD83 / Texas South Central (ftUS)",GEOGCS["NAD83",DATUM["North_American_Datum_1983",SPHEROID["GRS 1980",6378137,298.257222101,AUTHORITY["EPSG","7019"]],AUTHORITY["EPSG","6269"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994328,AUTHORITY["EPSG","9122"]],AUTHORITY["EPSG","4269"]],PROJECTION["Lambert_Conformal_Conic_2SP"],PARAMETER["standard_parallel_1",30.28333333333333],PARAMETER["standard_parallel_2",28.38333333333333],PARAMETER["latitude_of_origin",27.83333333333333],PARAMETER["central_meridian",-99],PARAMETER["false_easting",1968500],PARAMETER["false_northing",13123333.333],UNIT["US survey foot",0.3048006096012192,AUTHORITY["EPSG","9003"]],AUTHORITY["EPSG","2278"]]"
2285	NAD83, WA State Plane North, GRS 1980 spheroid, feet	PROJCS["NAD83 / Washington North (ftUS)",GEOGCS["NAD83",DATUM["North_American_Datum_1983",SPHEROID["GRS1980",6378137,298.257222101,AUTHORITY["EPSG","7019"]],AUTHORITY["EPSG","6269"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994328,AUTHORITY["EPSG","9122"]],AUTHORITY["EPSG","4269"]],PROJECTION["Lambert_Conformal_Conic_2SP"],PARAMETER["standard_parallel_1",48.73333333333333],PARAMETER["standard_parallel_2",47.5],PARAMETER["latitude_of_origin",47],PARAMETER["central_meridian",-120.83333333333333],PARAMETER["false_easting",1640416.667],PARAMETER["false_northing",0],UNIT["US survey foot",0.3048006096012192,AUTHORITY["EPSG","9003"]],AUTHORITY["EPSG","2285"]]"
2286	NAD83, WA State Plane South, GRS 1980 spheroid, feet	PROJCS["NAD83 / Washington South (ftUS)",GEOGCS["NAD83",DATUM["North_American_Datum_1983",SPHEROID["GRS 1980",6378137,298.257222101,AUTHORITY["EPSG","7019"]],AUTHORITY["EPSG","6269"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994328,AUTHORITY["EPSG","9122"]],AUTHORITY["EPSG","4269"]],PROJECTION["Lambert_Conformal_Conic_2SP"],PARAMETER["standard_parallel_1",47.33333333333334],PARAMETER["standard_parallel_2",45.83333333333334],PARAMETER["latitude_of_origin",45.33333333333334],PARAMETER["central_meridian",-120.5],PARAMETER["false_easting",1640416.667],PARAMETER["false_northing",0],UNIT["US survey foot",0.3048006096012192,AUTHORITY["EPSG","9003"]],AUTHORITY["EPSG","2286"]]"

3005 NAD83, Albers Equal Area	<pre>"PROJCS["NAD83 / BC Albers",GEOGCS["NAD83",DATUM["North_American_Datum_1983",SPHEROID["GRS 1980",6378137,298.257222101,AUTHORITY["EPSG","7019"]],AUTHORITY["EPSG","6269"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994328,AUTHORITY["EPS G","9122"]],AUTHORITY["EPSG","4269"]],PROJECTION["Albers_Conic_Equal_Area"],PARAMETER["sta ndard_parallel_1",50],PARAMETER["standard_parallel_2",58.5],PARAMETER["latitude_of_center",45],PARAMETER["longitude_of_center",- 126],PARAMETER["false_easting",1000000],PARAMETER["false_northing",0],UNIT["metre",1,AUTHO RITY["EPSG","9001"]],AUTHORITY["EPSG","3005"]]"</pre>
4152 NAD83 (HARN), GRS 1980 spheroid, decimal degrees	<pre>GEOGCS["NAD83(HARN)",DATUM["NAD83_High_Accuracy_Regional_Network",SPHEROID["GRS 1980",6378137,298.257222101,AUTHORITY["EPSG","7019"]],AUTHORITY["EPSG","6152"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994328,AUTHORITY["EPS G","9122"]],AUTHORITY["EPSG","4152"]]"</pre>
4267 NAD27, Clarke 1866 spheroid, decimal degrees	<pre>GEOGCS["NAD27",DATUM["North_American_Datum_1927",SPHEROID["Clarke 1866",6378206.4,294.9786982138982,AUTHORITY["EPSG","7008"]],AUTHORITY["EPSG","6267"]],PRI MEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994328,AUTHORIT Y["EPSG","9122"]],AUTHORITY["EPSG","4267"]]"</pre>
4269 NAD83, GRS 1980 spheroid, decimal degrees	<pre>GEOGCS["NAD83",DATUM["North_American_Datum_1983",SPHEROID["GRS 1980",6378137,298.257222101,AUTHORITY["EPSG","7019"]],AUTHORITY["EPSG","6269"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994328,AUTHORITY["EPS G","9122"]],AUTHORITY["EPSG","4269"]]"</pre>
4326 WGS84, WGS84 spheroid, decimal degrees	<pre>GEOGCS["WGS 84",DATUM["WGS_1984",SPHEROID["WGS 84",6378137,298.257223563,AUTHORITY["EPSG","7030"]],TOWGS84[0,0,0,0,0,0],AUTHORITY["EPS G","6326"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994 328,AUTHORITY["EPSG","9122"]],AUTHORITY["EPSG","4326"]]"</pre>
26911 UTM Zone 11N, NAD83, GRS 1980 spheroid, meters	<pre>"PROJCS["NAD83 / UTM zone 11N",GEOGCS["NAD83",DATUM["North_American_Datum_1983",SPHEROID["GRS 1980",6378137,298.257222101,AUTHORITY["EPSG","7019"]],AUTHORITY["EPSG","6269"]],PRIMEM["Greenwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994328,AUTHORITY["EPS G","9122"]],AUTHORITY["EPSG","4269"]],PROJECTION["Transverse_Mercator"],PARAMETER["latitud e_of_origin",0],PARAMETER["central_meridian",- 117],PARAMETER["scale_factor",0.9996],PARAMETER["false_easting",500000],PARAMETER["false_n orthing",0],UNIT["metre",1,AUTHORITY["EPSG","9001"]],AUTHORITY["EPSG","26911"]]"</pre>

subsamp_type	description
Biota	Biological fraction of a sample (e.g., benthic macroinvertebrates)
Entire	Entire main sample
HorizSub	Horizontal subsample (e.g., a subcore from a box core)
Partition	A subset of the material or items collected (e.g., water from a Niskin bottle or fish from a trawl)
PhysFract	Physical fraction of a sample (e.g., a screened size fraction of sediment)
TissueType	A specific tissue type
VertSect	Vertical section (e.g., a core horizon)

taxon_code	kingdom	phylum	tax_class	subclass	superorder	tax_order	suborder	superfamily	family	subfamily	genus	species	subspecies	common_name	itis_tsn
161094	Animalia	Chordata	Actinopterygii	Neopterygii		Semionotiformes			Lepisosteidae		Lepisosteus	osseus		longnose gar	
161095	Animalia	Chordata	Actinopterygii	Neopterygii		Semionotiformes			Lepisosteidae		Lepisosteus	oculatus		spotted gar	
161736	Animalia	Chordata	Actinopterygii	Neopterygii	Clupeomorpha	Clupeiformes	Clupeoidei		Clupeidae	Dorosomatinae	Dorosoma			shad	
163344	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Cypriniformes		Cyprinoidea	Cyprinidae		Cyprinus	carpio		common carp	
163537	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Cypriniformes		Cyprinoidea	Cyprinidae		Ctenopharyngodon	idella		grass carp	
163955	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Cypriniformes		Cobitoidea	Catostomidae	Ictiobinae	Ictiobus	bubalus		smallmouth buffalo	
163995	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Siluriformes			Ictaluridae		Ictalurus	furcatus		catfish	
163997	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Siluriformes			Ictaluridae		Ictalurus	punctatus		blue catfish	
163998	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Siluriformes			Ictaluridae		Ictalurus	punctatus		channel catfish	
164029	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Siluriformes			Ictaluridae		Pylodictis	olivaris		flathead catfish	
164034	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Siluriformes			Ictaluridae		Ameiurus			bullhead	
164157	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Siluriformes			Ariidae					sea catfishes	
164159	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Siluriformes			Ariidae		Bagre	marinus		gafftopsail catfish	
165651	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Cyprinodontiformes	Cyprinodontoidei		Fundulidae		Fundulus	grandis		Gulf killifish	165651
165992	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Atheriniformes			Atherinopsidae	Menidiinae	Menidia			silverside minnow	
167680	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Moronidae		Morone	saxatilis		striped bass	
167681	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Moronidae		Morone	chrysops		hybrid striped bass	
167682	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Moronidae		Morone	chrysops		white bass	
168166	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Centrarchidae		Pomoxis	annularis		white crappie	
169189	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Sparidae		Archosargus	probatocephalus		sheepshead	
169239	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Sciaenidae		Cynoscion	nebulosus		spotted seatrout	
169243	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Sciaenidae		Cynoscion	arenarius		sand seatrout	
169283	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Sciaenidae		Micropogonias	undulatus		Atlantic croaker	
169288	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Sciaenidae		Pogonias	cromis		black drum	
169290	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Sciaenidae		Sciaenops	ocellatus		red drum	
169364	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Perciformes	Percoidei		Sciaenidae		Aplodinotus	grunniens		freshwater drum	
170334	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Mugiliformes			Mugilidae		Mugil			mullet	
170335	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Mugiliformes			Mugilidae		Mugil	cephalus		striped mullet	
172707	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Pleuronectiformes	Pleuronectoidei							flounder	
172738	Animalia	Chordata	Actinopterygii	Neopterygii	Acanthopterygii	Pleuronectiformes	Pleuronectoidei		Paralichthyidae		Paralichthys	lethostigma		southern flounder	
201897	Animalia	Chordata	Actinopterygii	Neopterygii		Semionotiformes			Lepisosteidae		Atractosteus	spatula		alligator gar	
551680	Animalia	Arthropoda	Malacostraca	Eumalacostraca	Eucarida	Decapoda	Dendrobranchiata	Penaeoidea	Penaeidae		Litopenaeus	setiferus		white shrimp	
680665	Animalia	Chordata	Actinopterygii	Neopterygii	Ostariophysi	Siluriformes			Ariidae		Ariopsis	felis		hardhead catfish	
79872	Animalia	Mollusca	Bivalvia	Pteriormorphia		Ostreoida			Ostreidae		Crassostrea	virginica		eastern oyster	
80962	Animalia	Mollusca	Bivalvia	Heterodonta		Veneroida		Mactroidea	Mactridae		Rangia	cuneata		common rangia	80962
95602	Animalia	Arthropoda	Malacostraca	Eumalacostraca	Eucarida	Decapoda	Dendrobranchiata	Penaeoidea	Penaeidae					shrimp	
98696	Animalia	Arthropoda	Malacostraca	Eumalacostraca	Eucarida	Decapoda	Pleocyemata	Portunoidea	Portunidae		Callinectes	sapidus		blue crab	
CatoMacrocheilus											Catostomus	macrocheilus		Largescale sucker	
CerioDubia	Animalia	Arthropoda	Branchiopoda	Phyllopoda		Diplostraca	Cladocera		Daphniidae		Ceriodaphnia	dubia		Daphnia	
ChiroTentans	Animalia	Arthropoda	Insecta	Pterygota		Diptera	Nematocera		Chironomidae	Chironominae	Chironomus	dilutus		Midge	
CoreClupeiformis											Coregonus	clupeiformis		Lake Whitefish	
HyalAzteca	Animalia	Arthropoda	Malacostraca	Eumalacostraca	Peracarida	Amphipoda	Gammaridea		Hyalellidae		Hyalella	azteca			
LotaLota											Lota	lota		Burbot	
OnchoMykiss											Onchorhynchus	mykiss		Rainbow trout	
OnchoMykissHatch											Onchorhynchus	mykiss	(hatchery)	Rainbow trout (hatchery)	
ProsWilliamsoni											Prosopium	williamsoni		Mountain whitefish	
StizoVitream											Stizostedion	vitream		Walleye	

unit	description	dimension	as_html	addend1	factor	addend2	display
#	Count	#	#	0	1	0	#
#/100mL	Count per 100 mL	#/V	\$/100mL	0	1	0	#/100mL
cell/ml	cells per milliliter	M/V	cells per mL	0	1	0	cell/mL
CFS	Cubic feet per second	V/T	CFS	0	0.0283168	0	CFS
CFU/cL	Colony Forming Unit per centiliter	#/V	colonies per 10 mL	0	2	0	col/10mL
cm	Centimeters	L	cm	0	0.01	0	cm
code	Code	NA_co	code	0	1	0	code
col/100mL	colonies per 100 milliliters	#/V	colonies per 100 mL	0	1	0	col/100mL
col/1100mL	colonies per 1100 milliliters	#/V	colonies per 1100 mL	0	11	0	col/1100mL
CU	Color unit	Color	CU	0	1	0	CU
days	Days	T	day	0	1	0	days
degC	Degrees Centigrade	T	°C	0	1	0	°C
degF	Degrees Fahrenheit	T	°F	-32	0.555556	0	°F
degrees	Degree of arc	PIAng	degrees	0	1	0	degrees
fg/m3	femtogram per cubic meter	M/V	fg/m³	0	1.00E-09	0	fg/m ³
ft	Feet	L	ft	0	0.3048	0	ft
ft bls	feet below land surface	L	feet below land surface	0	0.3048	0	ft bls
FTU	Formazin Turbidity Unit	FTU	FTU	0	1	0	FTU
g	Grams	M	g	0	1	0	g
g/kg	Grams per kilogram	M/M	g/kg	0	1000	0	g/kg
g/L	Grams per Liter	M/V	g/L	0	1000	0	g/L
g/m2	grams per square meter	M/A	g/m²	0	1	0	g/m ²
g/mL	Grams per milliliter	M/V	g/mL	0	1	0	g/mL
hPa	Hectopascal	Pa	hPa	0	100	0	hPa
in	Inches	L	in	0	0.0254	0	in
JTU	Jackson Turbidity Unit	JTU	JTU	0	1	0	JTU
Kcfs	Kilo cubic feet per second	V/T	Kcfs	0	28.3168	0	Kcfs
kg	Kilograms	M	kg	0	1000	0	kg
kg/m3	Kilograms per cubic meter	M/V	kg/m³	0	1	0	kg/m ³
km	Kilometers	L	km	0	1000	0	km
L	Liters	V	L	0	0.001	0	L
m	Meters	L	m	0	1	0	m
m/s	Meters per second	L/T	m/s	0	1	0	m/s
m3	Cubic meter	V	m³	0	1	0	m ³
m3/sec	Cubic meters per second	V/T	m³/sec	0	1	0	m ³ /sec
mBq/g	millibecquerels per gram	D/M	mBq/g	0	1	0	mBq/g
me/100gm	Milliequivalents per 100 gram	Q/M	me/100gm	0	1	0	me/100gm

me/L	Milliequivalents per liter	Q/V	me/L	0	1	0 me/L
mg/kg	Milligrams per kilogram	M/M	mg/kg	0	1	0 mg/kg
mg/L	Milligrams per liter	M/V	mg/L	0	1	0 mg/L
mg/m ²	milligrams per square meter	M/A	mg/m ²	0	0.001	0 mg/m ²
mg/m ³	Milligrams per cubic meter	M/V	mg/m ³	0	0.001	0 mg/m ³
MGD	Million gallons per day	V/T	MGD	0	25.2364	0 MGD
milligrams	Milligrams	M	mg	0	0.001	0 mg
min	Minutes	T	min	0	1	0 min
mL	Milliliters	V	mL	0	1	0 mL
mm	Millimeters	L	mm	0	0.001	0 mm
mmHg	millimeters of mercury	Pa	mmHg	0	133.322	0 mmHg
MPN/100mL	most probable number per 100 milliliters	#/V	MPN per 100 mL	0	1	0 MPN/100mL
mS/cm	Millisiemens per centimeter	C	mS/cm	0	1000	0 mS/cm
mV	millivolts	EMF	mV	0	1	0 mV
ng	Nanograms	M	ng	0	1.00E-09	0 ng
ng/g	Nanograms per gram	M/M	ng/g	0	0.001	0 ng/g
ng/kg	Nanograms per kilogram	M/M	ng/kg	0	1.00E-06	0 ng/kg
ng/L	Nanograms per liter	M/V	ng/L	0	1	0 ng/L
NTU	Nephelometer Turbidity Unit	NTU	NTU	0	1	0 NTU
ODU	optical density (absorbance) per cm	OA	ODU	0	1	0 ODU
Pa	Pascal	Pa	Pa	0	1	0 Pa
pCi	Picocuries	D	pCi	0	1	0 pCi
pCi/g	picocuries per gram	D/M	pCi/g	0	1	0 pCi/g
pCi/L	picocuries per liter	D/V	pCi/L	0	1	0 pCi/L
PCU	platinum cobalt units	Color	PCU	0	1	0 PCU
percent	Percent by weight	M/M	wt.%	0	10000	0 wt.%
pg	picograms	M	pg	0	1.00E-12	0 pg
pg/g	Picograms per gram	M/M	pg/g	0	1.00E-06	0 pg/g
pg/L	Picograms per liter	M/V	pg/L	0	1.00E-09	0 pg/L
pg/m ³	Picograms per cubic meter	M/V	pg/m ³	0	1.00E-06	0 pg/m ³
ppm	Parts per million by weight	M/M	ppm	0	1	0 ppm
ppt	Parts per thousand	M/M	ppt	0	1000	0 ppt
RU	rel units	Color	RU	0	1	0 RU
SU	Standard pH units	SU	SU	0	1	0 SU
ton/ac-ft	tons per acre-foot	M/V	ton/ac-ft	0	1	0 ton/ac-ft
tons/d	Tons per day	M/T	tons/d	0	1	0 tons/d
ug	Micrograms	M	μg	0	1.00E-06	0 μg
ug/g	Micrograms per gram	M/M	μg/g	0	1	0 μg/g

ug/kg	Micrograms per kilogram	M/M	μg/kg	0	0.001	0 ug/kg
			μg/L			
ug/L	Micrograms per liter	M/V	μg/L	0	0.001	0 ug/L
ug/m3	Micrograms per cubic meter	M/V	μg/m ³	0	1	0 μg/m ³
umol/g	Micromoles per gram	#/M	μM/g	0	1	0 μM/g
Unk	Unknown units	NA_un	(unk)	0	1	0 (unk)
uS	Microsiemens	C	μS	0	1	0 μS
uS/cm	Microsiemens per centimeter	C	μS/cm	0	1	0 μS/cm
volts	Volts	EMF	volts	0	1	0 volts
year	Year	T	year	0	1	0 year

well_material	description
BentGrout	Bentonite grout
IronCasing	Black iron casing
Perf	Casing perforations
PVC	PVC casing
Sandpack	Sand paack
SS_screen	Stainless steel screen
SteelCasing	Steel casing

well_status	description
Abandoned	Abandoned
Active	In current use

well_use	description
Dewatering	Dewatering
Domestic	Domestic water supply for a single household
Fire	Fire protection
Industrial	Industrial supply
Irr	Irrigation
Monitoring	Aquifer monitoring
MultiDom	Domestic water supply for multiple households
Municipal	Municipal water supply
ProdRecov	Free product recovery
Stock	Stock watering

workflow description

Calculated Calculated values saved back into database.

EntryQA QA of data entry only, typically for data from third-party sources; no detailed data validation.

GIS GIS data acquisition and use

LabEDD Receiving, loading, validating data from analytical laboratories.

workflow	workflow_state	description
Calculated	Completed	Completed
Calculated	Unvalidated	Unvalidated
EntryQA	Completed	QA review and any updates have been completed; data are ready for use
EntryQA	InQA	QA review of data entry is underway
EntryQA	JustLoaded	Data have been loaded, QA has not been initiated
EntryQA	QA_updates	Data are being updated following QA review
EntryQA	Received	Data have been received, are not yet entered into the database
GIS	Frozen	Data set has been used for deliverables and is frozen: no further changes are allowed
GIS	InQA	QA review of the data are underway
GIS	QA_updates	Data are being updated following QA review
GIS	Received	Data have been received, QA and any necessary data transformation have not been completed
GIS	Working	Data set is suitable for use in analyses and maps
LabEDD	Completed	Validation updates received and applied
LabEDD	InValidation	DV flat file has been created and sent to validator
LabEDD	JustLoaded	Data have been loaded, validation has not started

method_code	description	lab_leach_method	lab_prep_method	lab_extraction_method	lab_anal_method	source_file	source_lineno
SM2540D	Total Suspended Solids (TSS) Dried at 103 -105 deg C	NA	NA	NA	SM2540D	K1106669_analmethod.csv	2

lab	lab_pkg	anal_type	labsample	material_analyzed	method_code	date_extracted	date_analyzed	mass_gm	vol_ml	source_file	source_lineno
CAS_K	K1106669	Convent	K1106669-001	Water	SM2540D					K1106669_labanal.csv	2
CAS_K	K1106669	Convent	K1106669-002	Water	SM2540D					K1106669_labanal.csv	3
CAS_K	K1106669	Convent	K1106669-003	Water	SM2540D					K1106669_labanal.csv	4
CAS_K	K1106669	Convent	K1106669-004	Water	SM2540D					K1106669_labanal.csv	5
CAS_K	K1106669	Convent	K1106669-MB1	Water	SM2540D					K1106669_labanal.csv	6
CAS_K	K1106669	Convent	K1106669-MB2	Water	SM2540D					K1106669_labanal.csv	7
CAS_K	K1106669	Convent	K1106669-LCS1	Water	SM2540D					K1106669_labanal.csv	8
CAS_K	K1106669	Convent	K1106669-LCS2	Water	SM2540D					K1106669_labanal.csv	9
CAS_K	K1106669	Convent	K1106669-001DUP	Water	SM2540D					K1106669_labanal.csv	10

lab	lab_cal_batch	instrument_type	instrument_id	initial_cal_date	source_file	source_lineno	cal_batch_id
CAS_K	254500	BALANCE	K-Balance-31		K1106669_labcalbatch.csv	2	1544

lab	lab_pkg	anal_type	anal_begun	anal_completed	analyst	comments	source_file	source_lineno
CAS_K	K1106669	Convent					K1106669_labpkg.csv	2

lab	lab_qc_batch	prep_date	extraction_date	source_file	source_lineno
CAS_K	254500			K1106669_labqcbatch.csv	2

lab	labqc_samp	qc_type	comments	source_file	source_lineno
CAS_K	K1106669-MB1	MethodBlank		K1106669_labqcsamp.csv	2
CAS_K	K1106669-MB2	MethodBlank		K1106669_labqcsamp.csv	3
CAS_K	K1106669-LCS1	LCS		K1106669_labqcsamp.csv	4
CAS_K	K1106669-LCS2	LCS		K1106669_labqcsamp.csv	5

lab	lab_pkg	anal_type	labsample	material_analyzed	method_code	analyte	meas_basis	lab_rep	meas_value	units	std_dev	detected	detection_limit	quantification_limit	reporting_limit	maximum_limit	lab_flags	comments	lab_qc_batch	lab_cal_batch	source_file	source_lineno	edd_result_ID
CAS_K	K1106669	Convent	K1106669-001	Surfwater	SM2540D	TSS	Unfit	1	6.5	mg/L		TRUE	5	5	5				254500	254500	K1106669_labresult.csv	2	196315
CAS_K	K1106669	Convent	K1106669-002	Surfwater	SM2540D	TSS	Unfit	1	16	mg/L		TRUE	5	5	5				254500	254500	K1106669_labresult.csv	3	196316
CAS_K	K1106669	Convent	K1106669-003	Surfwater	SM2540D	TSS	Unfit	1	14.5	mg/L		TRUE	5	5	5				254500	254500	K1106669_labresult.csv	4	196317
CAS_K	K1106669	Convent	K1106669-004	Surfwater	SM2540D	TSS	Unfit	1	18	mg/L		TRUE	5	5	5				254500	254500	K1106669_labresult.csv	5	196318
CAS_K	K1106669	Convent	K1106669-001DUP	Surfwater	SM2540D	TSS	Unfit	2	10	mg/L		TRUE	5	5	5		*		254500	254500	K1106669_labresult.csv	6	196319

lab	labsample	study_id	sample_no	labqc_samp	receipt_date	coc_id	source_file	source_lineno	id
CAS_K	K1106669-001	UpstrmSedLoad	SJUSL001-AS041-N				K1106669_labsample.csv	2	0
CAS_K	K1106669-002	UpstrmSedLoad	SJUSL001-AS042-N				K1106669_labsample.csv	3	0
CAS_K	K1106669-003	UpstrmSedLoad	SJUSL001-AS043-N				K1106669_labsample.csv	4	0
CAS_K	K1106669-004	UpstrmSedLoad	SJUSL001-AS043-D				K1106669_labsample.csv	5	0
CAS_K	K1106669-MB1			K1106669-MB1			K1106669_labsample.csv	6	0
CAS_K	K1106669-MB2			K1106669-MB2			K1106669_labsample.csv	7	0
CAS_K	K1106669-LCS1			K1106669-LCS1			K1106669_labsample.csv	8	0
CAS_K	K1106669-LCS2			K1106669-LCS2			K1106669_labsample.csv	9	0
CAS_K	K1106669-001DUP	UpstrmSedLoad	SJUSL001-AS041-N				K1106669_labsample.csv	10	0

lab	lab_qc_batch	lcs_id	analyte	meas_basis	lab_rep	lcs_type	true_lcs_conc	meas_lcs_conc	lcs_lowlimit	lcs_highlimit	units	conc_qual	source_file	source_lineno	id
CAS_K	254500	K1106669-LCS1	TSS	Unfilt	1	L	240	240	80	115	mg/L		K1106669_lcs.csv	2	60
CAS_K	254500	K1106669-LCS2	TSS	Unfilt	1	L	240	242	80	115	mg/L		K1106669_lcs.csv	3	61

lab	lab_qc_batch	labsample	method_code	analyte	lab_rep	concentration	retention_time	units	lab_flags	source_file	source_lineno
CAS_K	254500	K1106669-MB1	SM2540D	TSS	1	5		mg/L	U	K1106669_methodblank.csv	2
CAS_K	254500	K1106669-MB2	SM2540D	TSS	1	5		mg/L	U	K1106669_methodblank.csv	3

lab	method_code	description	lab_leach_method	lab_prep_method	lab_extraction_method	lab_anal_method	idb_method_code	Note
CAS_K	6020A	Metals by Inductively Coupled Plasma-Mass Spectroscopy	NA	NA	EPA3050B	6020A	SW6020A_3050B	first seen in K1101209
CAS_K	8270CSIM	Semivolatile Organic Compounds by GC/MS Selective Ion Monitoring	NA	NA	EPA3541	8270CSIM	SW8270CSIM_3541	first seen in K1010961
CAS_K	8270CSIM_20	Semivolatile Organic Compounds by GC/MS Selective Ion Monitoring	NA	NA	EPA_3520C	8270CSIM	SW8270CSIM_3520	first seen in K1011383
CAS_K	8270CSIM_20	Semivolatile Organic Compounds by GC/MS Selective Ion Monitoring	NA	NA	EPA3541	8270CSIM	SW8270CSIM_3541	first seen in K1011383
CAS_K	9030M	Sulfide, Acid Soluble (Total) (Distillation, Colorimetric)	NA	2mm sieve	EPA9030B	9030M	9030M_2mm	new
CAS_K	9045D	Soil and Waste pH	NA	2mm sieve	NA	9045D	9045D_2mm	new
CAS_K	ASTMD412982M	Total and Organic Carbon in Water by Temperature Oxidation and Coulometric Detection, Modified for Soils	NA	2mm sieve	NA	ASTMD412982M	D412982M_2mm	new
CAS_K	D412982M	Total and Organic Carbon in Water by Temperature Oxidation and Coulometric Detection, Modified for Soils	NA	2mm sieve	NA	ASTMD41298	D412982M_2mm	
CAS_K	EPA_160.3	Residue, Total, Gravimetric, Dried at 103-105 Deg-C, EPA160.3	NA	2mm sieve	NA	EPA_160.3	EPA160.3_2mm	new coded as presentby the lab
CAS_K	EPA_160.3	Residue, Total, Gravimetric, Dried at 103-105 Deg-C, EPA160.3	NA	NA	NA	EPA_160.3	EPA_160.3	
CAS_K	EPA_8081A	Organochlorine Pesticides by GC/ECD	NA	2mm sieve	EPA3541		8081 EPA8081A_2mm41	new
CAS_K	EPA_8081A	Organochlorine Pesticides by GC/ECD	NA	NA	EPA_3535		8081 EPA8081A_35	new
CAS_K	EPA_8082	Polychlorinated Biphenyls (PCBs) by GC/ECD	NA	2mm sieve	EPA3541		8082 EPA8082_2mm41	new
CAS_K	EPA_8082	Polychlorinated Biphenyls (PCBs) by GC/ECD	NA	NA	EPA_3535		8082 SW8082_3535	new
CAS_K	EPA_8082	Polychlorinated Biphenyls (PCBs) by GC/ECD	NA	NA	EPA3541		8082 SW8082_3541	
CAS_K	EPA_8270C	Semivolatile Organic Compounds by GC/MS	NA	2mm sieve	EPA3541	GC_MS	EPA8270C_2mm41	new
CAS_K	EPA_8270C	Semivolatile Organic Compounds by GC/MS	NA	NA	EPA_3520C	GC_MS	SW8270C_3520C	new
CAS_K	EPA_8270CSIM	Semivolatile Organic Compounds by GC/MS Selective Ion Monitoring	NA	2mm sieve	EPA3541	8270CSIM	8270CSIM_2mm41	new
CAS_K	EPA_8270CSIM	Semivolatile Organic Compounds by GC/MS Selective Ion Monitoring	NA	NA	EPA_3520C	8270CSIM	8270CSIM_20	new
CAS_K	EPA7470A	Mercury in Liquid Waste (Manual Cold-Vapor Technique)	NA	NA	NA	EPA7470A	SW7470A	
CAS_K	EPA7471A	Mercury by Cold Vapor Atomic Fluorescence (CVAF)	NA	2mm sieve	NA	EPA7471A	SW7471A_2mm	new
CAS_K	EPA7471A	Mercury by Cold Vapor Atomic Fluorescence (CVAF)	NA	NA	NA	EPA7471A	SW7471A	new
CAS_K	EPA7471B	Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)	NA	NA	NA	EPA7471B	SW7471B	first seen in K1101209
CAS_K	EPA8081A	Organochlorine Pesticides by GC/ECD	NA	NA	EPA3541	EPA8081A	SW8081A_3541	
CAS_K	EPA8082	Polychlorinated Biphenyls (PCBs) by GC/ECD	NA	NA	EPA3541	EPA8082	SW8082_3541	
CAS_K	EPA8082_35	Polychlorinated Biphenyls (PCBs) by GC/ECD	NA	NA	EPA_3535	EPA8082	SW8082_3535	first seen in K1100165
CAS_K	EPA8082_35	Polychlorinated Biphenyls (PCBs) by GC/ECD	NA	NA	EPA_3535A	EPA8082	SW8082_3535A	first seen in K1100243
CAS_K	EPA8260C	Volatile Organic Compounds by GC/MS	NA	NA	EPA5030	EPA8260C	SW8260C_5030	first seen in K1101236
CAS_K	EPA8270C	Semivolatile Organic Compounds by GC/MS	NA	NA	EPA_3520C	GC_MS	SW8270C_3520C	first seen in K1011127
CAS_K	EPA8270C	Semivolatile Organic Compounds by GC/MS	NA	NA	EPA3541	EPA8270C	SW8270C_3541	first seen in K1101244
CAS_K	EPA8270C	Semivolatile Organic Compounds by GC/MS	NA	NA	EPA3541	GC_MS	SW8270C_3541	
CAS_K	EPA9012A	Total and Amenable Cyanide (Automated Colorimetric)	NA	NA	NA	EPA9012A	SW9012A	
CAS_K	ICP_MS	ICP MS	NA	2mm sieve	EPA3050B	ICP_MS	ICPMS_3050B2mm	new coded as presentby the lab
CAS_K	ICP_MS	ICP MS	NA	NA	EPA3050B	ICP_MS	ICPMS_3050B	new coded as presentby the lab
CAS_K	ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) for Metals and Trace Elements, SW6010	NA	2mm sieve	EPA3050B	ICP-AES	ICPAES_3050B2mm	new coded as presentby the lab
CAS_K	ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) for Metals and Trace Elements, SW6010	NA	NA	CLAA	ICP-AES	ICP-AES_CLAA	new coded as presentby the lab
CAS_K	ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) for Metals and Trace Elements, SW6010	NA	NA	EPA3050B	ICP-AES	ICPAES_3050B	new coded as presentby the lab
CAS_K	ICPAES_CLAA	Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) for Metals and Trace Elements, SW6010	NA	NA	CLAA	ICP-AES	ICP-AES_CLAA	new coded as presentby the lab
CAS_K	ICPMS_3050B	ICP MS	NA	2mm sieve	EPA3050B	ICP_MS	ICPMS_3050B_2mm	
CAS_K	PSEP_GrSz	Puget Sound Estuary Protocols, Conventional Sediment Variables, Particle/Grain Size by Sieve-Pipette, 1986, Minor Rev. 2003	NA	NA	NA	PSEP_GrSz	PSEP_GrSz	present
CAS_K	SM5310C	Total Organic Carbon (Persulfate-UV Oxidation)	NA	NA	NA	SM5310C	SM5310C	new
CASH	1613B	EPA Standard Method for High Resolution Analysis of Dioxins/Furans	NA	NA	NA	EPA1613B	EPA1613B	
SGS NC	E1613_3520	Determination of CDDs/CDFs by HRGC/HRMS	NA	SW3520	SW3520	1613	E1613_3520	new
SGS NC	E1613_3540	Determination of CDDs/CDFs by HRGC/HRMS	NA	SW3540	SW3540	1613	E1613_3540	new
SGS NC	E1614_3520	Determination of BDEs by HRGC/HRMS	NA	SW3520	SW3520	1614	E1614_3520	new
SGS NC	E1614_3540	Determination of BDEs by HRGC/HRMS	NA	SW3540	SW3540	1614	E1614_3540	new
SGS NC	SW1668A_3520	Determination of PCBs by HRGC/HRMS	NA	SW3520	SW3520	1668A	SW1668A_3520	new
SGS NC	SW1668A_3540	Determination of PCBs by HRGC/HRMS	NA	SW3540	SW3540	1668A	SW1668A_3540	new

lab	edd_analtype	idb_analtype
FGS	FGS022	Metals
CAS_K	EPA 1632	Metals
CAS_K	Convent	Convent
CAS_K	Metals	Metals
CAS_K	SVOCs	SVOCs
CAS_K	PestPCB	PestPCB
CAS_K	Radio Chem	Radio_Chem
CAS_K	Radio_Chem	Radio_Chem
CAS_K	PestPCBs	PestPCB

lab	lab_analyte_code	analyte
CAS_K	PCB_cong_66	PCB066
CAS_K	PCB_cong_67	PCB067
CAS_K	PCB_cong_68	PCB068
CAS_K	PCB_cong_7	PCB007
CAS_K	PCB_cong_72	PCB072
CAS_K	PCB_cong_77	PCB077
CAS_K	PCB_cong_78	PCB078
CAS_K	PCB_cong_79	PCB079
CAS_K	PCB_cong_8	PCB008
CAS_K	PCB_cong_80	PCB080
CAS_K	PCB_cong_81	PCB081
CAS_K	PCB_cong_82	PCB082
CAS_K	PCB_cong_83+99	PCB083+099
CAS_K	PCB_cong_84	PCB084
CAS_K	PCB_cong_85+116	PCB085+116
CAS_K	PCB_cong_88+91	PCB088+091
CAS_K	PCB_cong_89	PCB089
CAS_K	PCB_cong_9	PCB009
CAS_K	PCB_cong_92	PCB092
CAS_K	PCB_cong_93+100	PCB093+100
CAS_K	PCB_cong_94	PCB094
CAS_K	PCB_cong_95	PCB095
CAS_K	PCB_cong_96	PCB096
CAS_K	PCB_cong_98+102	PCB098+102
CAS_K	PCBs 108+124	PCB108+124
SGS NC	1,2,3,4,6,7,8-HpCDD	1234678HepDioxin
SGS NC	1,2,3,4,6,7,8-HpCDF	1234678HepFuran
SGS NC	1,2,3,4,7,8,9-HpCDF	1234789HepFuran
SGS NC	1,2,3,4,7,8-HxCDD	123478HexDioxin
SGS NC	1,2,3,4,7,8-HxCDF	123478HexFuran
SGS NC	1,2,3,6,7,8-HxCDD	123678HexDioxin
SGS NC	1,2,3,6,7,8-HxCDF	123678HexFuran
SGS NC	1,2,3,7,8,9-HxCDD	123789HexDioxin
SGS NC	1,2,3,7,8,9-HxCDF	123789HexFuran
SGS NC	1,2,3,7,8-PeCDD	12378PenDioxin
SGS NC	1,2,3,7,8-PeCDF	12378PenFuran
SGS NC	100-PeBDE	PBDE_cong_100

SGS NC	103-PeCB	PCB_cong_103
SGS NC	104L-PeCB	13C_PCB_cong_104
SGS NC	104-PeCB	PCB_cong_104
SGS NC	105L-PeCB	13C_PCB_cong_105
SGS NC	105-PeCB	PCB_cong_105
SGS NC	106-PeCB	PCB_cong_106
SGS NC	107-PeCB	PCB_cong_107
CAS_K	108601	22OxyBis1ClProp
SGS NC	109-PeCB	PCB_cong_109
SGS NC	10-DiCB	PCB_cong_10
SGS NC	110-PeCB	PCB_cong_110
CAS_K	111444	bs2ClEtOxEther
SGS NC	111L-PeCB	13C_PCB_cong_111
SGS NC	111-PeCB	PCB_cong_111
CAS_K	1122TetrClEth	1122TetraClEth
SGS NC	112-PeCB	PCB_cong_112
SGS NC	114L-PeCB	13C_PCB_cong_114
SGS NC	114-PeCB	PCB_cong_114
SGS NC	118L-PeCB	13C_PCB_cong_118
SGS NC	118-PeCB	PCB_cong_118
CAS_K	11Biphenyl	11Biphenyl
SGS NC	11-DiCB	PCB_cong_11
SGS NC	120-PeCB	PCB_cong_120
SGS NC	121-PeCB	PCB_cong_121
SGS NC	122-PeCB	PCB_cong_122
SGS NC	123L-PeCB	13C_PCB_cong_123
SGS NC	123-PeCB	PCB_cong_123
CAS_K	124TriClBenzene	124TriClBenzene
SGS NC	126L-PeCB	13C_PCB_cong_126
SGS NC	126-PeCB	PCB_cong_126
SGS NC	127-PeCB	PCB_cong_127
SGS NC	128-HxBDE	PBDE_cong_128
SGS NC	128-HxCB	PCB_cong_128
SGS NC	129-HxCB	PCB_cong_129
SGS NC	12-DiCB	PCB_cong_12
CAS_K	12DiClBenzene	12DiClBenzene
SGS NC	130-HxCB	PCB_cong_130
SGS NC	131-HxCB	PCB_cong_131

SGS NC	132-HxCB	PCB_cong_132
SGS NC	133-HxCB	PCB_cong_133
SGS NC	134-HxCB	PCB_cong_134
SGS NC	135-HxCB	PCB_cong_135
SGS NC	136-HxCB	PCB_cong_136
SGS NC	137-HxCB	PCB_cong_137
SGS NC	138,166-HxBDE	PBDE_coel138+166
SGS NC	139-HxCB	PCB_cong_139
CASH	13C_PCB_cong_105	PCB105L
CASH	13C_PCB_cong_111	PCB111L
CASH	13C_PCB_cong_114	PCB114L
CASH	13C_PCB_cong_118	PCB118L
CASH	13C_PCB_cong_123	PCB123L
CASH	13C_PCB_cong_126	PCB126L
CASH	13C_PCB_cong_167	PCB167L
CASH	13C_PCB_cong_169	PCB169L
CASH	13C_PCB_cong_178	PCB178L
CASH	13C_PCB_cong_189	PCB189L
CASH	13C_PCB_cong_77	PCB077L
CASH	13C_PCB_cong_81	PCB081L
SGS NC	13C-100-PeBDE	13C_PBDE_100
SGS NC	13C12-1,2,3,4,6,7,8-HpCDD	13C1234678HpCDD
SGS NC	13C12-1,2,3,4,6,7,8-HpCDF	13C1234678HpCDF
SGS NC	13C12-1,2,3,4,7,8,9-HpCDF	13C1234789HpCDF
SGS NC	13C12-1,2,3,4,7,8-HxCDD	13C123478HxCDD
SGS NC	13C12-1,2,3,4,7,8-HxCDF	13C123478HxCDF
SGS NC	13C12-1,2,3,6,7,8-HxCDD	13C123678HxCDD
SGS NC	13C12-1,2,3,6,7,8-HxCDF	13C123678HxCDF
SGS NC	13C12-1,2,3,7,8,9-HxCDF	13C123789HxCDF
SGS NC	13C12-1,2,3,7,8-PeCDD	13C12378PeCDD
SGS NC	13C12-1,2,3,7,8-PeCDF	13C12378PeCDF
SGS NC	13C12-2,3,4,6,7,8-HxCDF	13C234678HxCDF
SGS NC	13C12-2,3,4,7,8-PeCDF	13C23478PeCDF
SGS NC	13C12-2,3,7,8-TCDD	13C2378TCDD
SGS NC	13C12-2,3,7,8-TCDF	13C2378TCDF
SGS NC	13C12-OCDD	13C_OCDD
SGS NC	13C-139-HxBDE	13C_PBDE_139
SGS NC	13C-153-HxBDE	13C_PBDE_153

SGS NC	13C-154-HxBDE	13C_PBDE_154
SGS NC	13C-156,157-HxCB	13C_PCB_156_15
SGS NC	13C-183-HpBDE	13C_PBDE_183
SGS NC	13C-209-DeBDE	13C_PBDE_209
SGS NC	13C-28-TrBDE	13C_PBDE_28
SGS NC	13C-47-TeBDE	13C_PBDE_47
SGS NC	13C-99-PeBDE	13C_PBDE_99
CAS_K	13DiClBenzene	13DiClBenzene
SGS NC	141-HxCB	PCB_cong_141
SGS NC	142-HxCB	PCB_cong_142
SGS NC	143-HxCB	PCB_cong_143
SGS NC	144-HxCB	PCB_cong_144
SGS NC	145-HxCB	PCB_cong_145
SGS NC	146-HxCB	PCB_cong_146
SGS NC	147-HxCB	PCB_cong_147
SGS NC	148-HxCB	PCB_cong_148
SGS NC	14-DiCB	PCB_cong_14
CAS_K	14DiClBenzene	14DiClBenzene
SGS NC	150-HxCB	PCB_cong_150
SGS NC	152-HxCB	PCB_cong_152
SGS NC	153-HxBDE	PBDE_cong_153
SGS NC	153-HxCB	PCB_cong_153
SGS NC	154-HxBDE	PBDE_cong_154
SGS NC	154-HxCB	PCB_cong_154
SGS NC	155-HxCB	PCB_cong_155
SGS NC	155L-HxCB	13C_PCB_cong_155
SGS NC	156,157-HxCB	PCB_cong_156+157
SGS NC	156-HxCB	PCB_cong_156
SGS NC	156L-HxCB	13C_PCB_cong_156
SGS NC	158-HxCB	PCB_cong_158
SGS NC	159-HxCB	PCB_cong_159
SGS NC	15-DiCB	PCB_cong_15
SGS NC	15L-DiCB	13C_PCB_cong_15
SGS NC	160-HxCB	PCB_cong_160
SGS NC	161-HxCB	PCB_cong_161
SGS NC	162-HxCB	PCB_cong_162
SGS NC	164-HxCB	PCB_cong_164
SGS NC	165-HxCB	PCB_cong_165

SGS NC 167-HxCB	PCB_cong_167
SGS NC 167L-HxCB	13C_PCB_cong_167
SGS NC 169-HxCB	PCB_cong_169
SGS NC 169L-HxCB	13C_PCB_cong_169
SGS NC 16-TrCB	PCB_cong_16
SGS NC 17,25-TrBDE	PBDE_coel17+25
SGS NC 170-HpCB	PCB_cong_170
SGS NC 171-HpCB	PCB_cong_171
SGS NC 172-HpCB	PCB_cong_172
SGS NC 174-HpCB	PCB_cong_174
SGS NC 175-HpCB	PCB_cong_175
SGS NC 176-HpCB	PCB_cong_176
SGS NC 177-HpCB	PCB_cong_177
SGS NC 178-HpCB	PCB_cong_178
SGS NC 178L-HpCB	13C_PCB_cong_178
SGS NC 179-HpCB	PCB_cong_179
SGS NC 17-TrCB	PCB_cong_17
SGS NC 180-HpCB	PCB_cong_180
SGS NC 181-HpCB	PCB_cong_181
SGS NC 182-HpCB	PCB_cong_182
SGS NC 183-HpBDE	PBDE_cong_183
SGS NC 183-HpCB	PCB_cong_183
SGS NC 184-HpBDE	PBDE_cong_184
SGS NC 184-HpCB	PCB_cong_184
SGS NC 186-HpCB	PCB_cong_186
SGS NC 187-HpCB	PCB_cong_187
SGS NC 188-HpCB	PCB_cong_188
SGS NC 188L-HpCB	13C_PCB_cong_188
SGS NC 189-HpCB	PCB_cong_189
SGS NC 189L-HpCB	13C_PCB_cong_189
SGS NC 18-TrCB	PCB_cong_18
SGS NC 190-HpBDE	PBDE_cong_190
SGS NC 190-HpCB	PCB_cong_190
SGS NC 191-HpBDE	PBDE_cong_191
SGS NC 191-HpCB	PCB_cong_191
SGS NC 192-HpCB	PCB_cong_192
SGS NC 194-OcCB	PCB_cong_194
SGS NC 195-OcCB	PCB_cong_195

SGS NC	196-OcCB	PCB_cong_196
SGS NC	197-OcCB	PCB_cong_197
SGS NC	198-OcCB	PCB_cong_198
SGS NC	19L-TrCB	13C_PCB_cong_19
SGS NC	19-TrCB	PCB_cong_19
SGS NC	1L-MoCB	13C_PCB_cong_1
SGS NC	1-MoCB	PCB_cong_1
SGS NC	2,3,4,6,7,8-HxCDF	234678HexFuran
SGS NC	2,3,4,7,8-PeCDF	23478PenFuran
SGS NC	2,3,7,8-TCDD	2378TetDioxin
SGS NC	2,3,7,8-TCDF	2378TetFuran
CAS_K	2,4,6-Tribromoph	246TriBrPhenol
CAS_K	2,4,6-Tribromophenol	246TriBrPhenol
SGS NC	201-OcCB	PCB_cong_201
SGS NC	202L-OcCB	13C_PCB_cong_202
SGS NC	202-OcCB	PCB_cong_202
SGS NC	203-OcBDE	PBDE_cong_203
SGS NC	203-OcCB	PCB_cong_203
SGS NC	204-OcCB	PCB_cong_204
SGS NC	205L-OcCB	13C_PCB_cong_205
SGS NC	205-OcCB	PCB_cong_205
SGS NC	206L-NoCB	13C_PCB_cong_206
SGS NC	206-NoBDE	PBDE_cong_206
SGS NC	206-NoCB	PCB_cong_206
SGS NC	207-NoCB	PCB_cong_207
SGS NC	208L-NoCB	13C_PCB_cong_208
SGS NC	208-NoCB	PCB_cong_208
SGS NC	209-DeBDE	PBDE_cong_209
SGS NC	209-DeCB	DecClBiphenyl
SGS NC	209L-DeCB	13CDecClBiphenyl
SGS NC	20-TrCB	PCB_cong_20
SGS NC	21-TrCB	PCB_cong_21
CAS_K	22OxyBis2ClProp	22OxyBis2ClProp
SGS NC	22-TrCB	PCB_cong_22
SGS NC	23-TrCB	PCB_cong_23
CAS_K	245TriClPhenol	245TriClPhenol
CAS_K	246TriClPhenol	246TriClPhenol
CAS_K	24DDD	24DDD

CAS_K	24DDE	24DDE
CAS_K	24DDT	24DDT
CAS_K	24DiClPhenol	24DiClPhenol
CAS_K	24DiMePhenol	24DiMePhenol
CAS_K	24DiNiPhenol	24DiNiPhenol
CAS_K	24DiNiToluene	24DiNiToluene
SGS NC	24-TrCB	PCB_cong_24
SGS NC	25-TrCB	PCB_cong_25
CAS_K	26DiNiToluene	26DiNiToluene
SGS NC	26-TrCB	PCB_cong_26
SGS NC	27-TrCB	PCB_cong_27
SGS NC	28,33-TrBDE	PBDE_coel28+33
SGS NC	28L-TrCB	13C_PCB_cong_28
CAS_K	2-Chloroethyl Vi	2ClEtOxEthe
CAS_K	2-Chloroethyl Vinyl Ether	2ClEtOxEthe
CAS_K	2ClNaphthalene	2ClNaphthalene
CAS_K	2ClPhenol	2ClPhenol
CAS_K	2-Fluorobiphenyl	2FlBiphenyl
CAS_K	2-Fluorophenol	2FlPhenol
CAS_K	2MeNaphthalene	2MeNaphthalene
CAS_K	2MePhenol	2MePhenol
SGS NC	2-MoCB	PCB_cong_2
CAS_K	2NiAniline	2NiAniline
CAS_K	2NiPhenol	2NiPhenol
SGS NC	31-TrCB	PCB_cong_31
SGS NC	32-TrCB	PCB_cong_32
CAS_K	33DiClBenzidine	33DiClBenzidine
SGS NC	34-TrCB	PCB_cong_34
SGS NC	35-TrCB	PCB_cong_35
SGS NC	36-TrCB	PCB_cong_36
SGS NC	37Cl4-2,3,7,8-TCDD	37Cl4-2378TCDD
SGS NC	37L-TrCB	13C_PCB_cong_37
SGS NC	37-TrCB	PCB_cong_37
SGS NC	38-TrCB	PCB_cong_38
SGS NC	39-TrCB	PCB_cong_39
SGS NC	3L-MoCB	13C_PCB_cong_3
SGS NC	3-MoCB	PCB_cong_3
CAS_K	3NiAniline	3NiAniline

SGS NC	40-TeCB	PCB_cong_40
SGS NC	41-TeCB	PCB_cong_41
SGS NC	42-TeCB	PCB_cong_42
SGS NC	43-TeCB	PCB_cong_43
CAS_K	44DDD	44DDD
CAS_K	44DDE	44DDE
CAS_K	44DDT	44DDT
SGS NC	44-TeCB	PCB_cong_44
SGS NC	45-TeCB	PCB_cong_45
CAS_K	46DiNi2MePhenol	46DiNi2MePhenol
SGS NC	46-TeCB	PCB_cong_46
SGS NC	47-TeBDE	PBDE_cong_47
SGS NC	48-TeCB	PCB_cong_48
SGS NC	49-TeBDE	PBDE_cong_49
SGS NC	49-TeCB	PCB_cong_49
CAS_K	4BrPhPhEther	4BrPhPhEther
CAS_K	4Cl3MePhenol	4Cl3MePhenol
CAS_K	4ClAniline	4ClAniline
CAS_K	4ClPhPhEther	4ClPhPhEther
SGS NC	4-DiCB	PCB_cong_4
SGS NC	4L-DiCB	13C_PCB_cong_4
CAS_K	4MePhenol	4MePhenol
CAS_K	4NiAniline	4NiAniline
CAS_K	4NiPhenol	4NiPhenol
SGS NC	50-TeCB	PCB_cong_50
SGS NC	52-TeCB	PCB_cong_52
SGS NC	54L-TeCB	13C_PCB_cong_54
SGS NC	54-TeCB	PCB_cong_54
SGS NC	55-TeCB	PCB_cong_55
SGS NC	56-TeCB	PCB_cong_56
SGS NC	57-TeCB	PCB_cong_57
SGS NC	58-TeCB	PCB_cong_58
SGS NC	59-TeCB	PCB_cong_59
SGS NC	5-DiCB	PCB_cong_5
SGS NC	60-TeCB	PCB_cong_60
SGS NC	61-TeCB	PCB_cong_61
SGS NC	63-TeCB	PCB_cong_63
SGS NC	64-TeCB	PCB_cong_64

SGS NC 66-TeBDE	PBDE_cong_66
SGS NC 66-TeCB	PCB_cong_66
SGS NC 67-TeCB	PCB_cong_67
SGS NC 68-TeCB	PCB_cong_68
SGS NC 6-DiCB	PCB_cong_6
SGS NC 71-TeBDE	PBDE_cong_71
SGS NC 72-TeCB	PCB_cong_72
SGS NC 73-TeCB	PCB_cong_73
SGS NC 77L-TeCB	13C_PCB_cong_77
SGS NC 77-TeCB	PCB_cong_77
SGS NC 78-TeCB	PCB_cong_78
SGS NC 79-TeCB	PCB_cong_79
SGS NC 7-DiCB	PCB_cong_7
SGS NC 80-TeCB	PCB_cong_80
SGS NC 81L-TeCB	13C_PCB_cong_81
SGS NC 81-TeCB	PCB_cong_81
SGS NC 82-PeCB	PCB_cong_82
SGS NC 83-PeCB	PCB_cong_83
SGS NC 84-PeCB	PCB_cong_84
SGS NC 85-PeBDE	PBDE_cong_85
SGS NC 85-PeCB	PCB_cong_85
SGS NC 86-PeCB	PCB_cong_86
SGS NC 88-PeCB	PCB_cong_88
SGS NC 89-PeCB	PCB_cong_89
SGS NC 8-DiCB	PCB_cong_8
SGS NC 90-PeCB	PCB_cong_90
SGS NC 92-PeCB	PCB_cong_92
SGS NC 93-PeCB	PCB_cong_93
SGS NC 94-PeCB	PCB_cong_94
SGS NC 95-PeCB	PCB_cong_95
SGS NC 96-PeCB	PCB_cong_96
SGS NC 98-PeCB	PCB_cong_98
SGS NC 99-PeBDE	PBDE_cong_99
SGS NC 99-PeCB	PCB_cong_99
SGS NC 9-DiCB	PCB_cong_9
CAS_K Acenaphthene	Acenaphthene
CAS_K Acenaphthylene	Acenaphthylene
CAS_K Acetophenone	Acetophenone

CAS_K	aHCH	alphaBHC
CAS_K	Aldrin	Aldrin
CAS_K	Alkalinity	Alkalinity
CAS_K	alphaChlordane	alphaChlordane
CAS_K	Aluminum	Aluminum
CAS_K	Ammonia_N	Ammonia_N
CAS_K	Anthracene	Anthracene
CAS_K	Antimony	Antimony
CAS_K	Aroclor_1262	Aroclor 1262
CAS_K	Aroclor_1262	Aroclor 1262
CAS_K	Aroclor_1268	Aroclor 1268
CAS_K	Aroclor_1268	Aroclor 1268
CAS_K	Arsenic	Arsenic
CAS_K	Barium	Barium
CAS_K	Benzaldehyde	Benzaldehyde
CAS_K	Benzoic acid	Benzoic acid
CAS_K	Benzyl alcohol	Benzyl alcohol
CAS_K	Beryllium	Beryllium
CAS_K	betaBHC	betaBHC
CAS_K	Bismuth	Bismuth
CAS_K	Boron	Boron
CAS_K	bs2ClEtOxEther	bs2ClEtOxEther
CAS_K	bs2ClEtOxMethane	bs2ClEtOxMethane
CAS_K	bs2EtHxPhthalate	bs2EtHxPhthalate
CAS_K	BzAAnthracene	BzAAnthracene
CAS_K	BzAPyrene	BzAPyrene
CAS_K	BzBFluoranthene	BzBFluoranthene
CAS_K	BzEPyrene	BzEPyrene
CAS_K	BzGhiPerylene	BzGhiPerylene
CAS_K	BzKFluoranthene	BzKFluoranthene
CAS_K	BzNButPhthalate	BzNButPhthalate
CAS_K	Cadmium	Cadmium
CAS_K	Calcium	Calcium
CAS_K	Caprolactam	Caprolactam
CAS_K	Carbazole	Carbazole
CAS_K	Carbon_org	Carbon_org
CAS_K	Cerium	Cerium
CAS_K	Cesium	Cesium

CAS_K	Chloride	Chloride
CAS_K	Chromium	Chromium
CAS_K	Chrysene	Chrysene
CAS_K	cisNonachlor	cisNonachlor
CAS_K	Cobalt	Cobalt
CAS_K	Copper	Copper
CAS_K	DecClBiphenyl	PCB209
Isotech	delta_18O	delta_18O
Isotech	delta_DH	delta_DH
CAS_K	deltaBHC	deltaBHC
CAS_K	Dibenzofuran	Dibenzofuran
CAS_K	DiBzAhAnthracene	DiBzAhAnthracene
CAS_K	DiBzThiophene	DiBzThiophene
CAS_K	Dieldrin	Dieldrin
CAS_K	DiEtPhthalate	DiEtPhthalate
CAS_K	DiMePhthalate	DiMePhthalate
CAS_K	DiNButPhthalate	DiNButPhthalate
CAS_K	DiNOctPhthalate	DiNOctPhthalate
CAS_K	DOC	DOC
CAS_K	Dysprosium	Dysprosium
CAS_K	Endosulfan_I	Endosulfan_I
CAS_K	Endosulfan_II	Endosulfan_II
CAS_K	EndosulfanSulf	EndosulfanSulf
CAS_K	Endrin	Endrin
CAS_K	Endrin aldehyde	Endrin aldehyde
CAS_K	Endrin ketone	Endrin ketone
CAS_K	Erbium	Erbium
CAS_K	Europium	Europium
CAS_K	Fluoranthene	Fluoranthene
CAS_K	Fluoranthene-d10	Fluoranth-d10
CAS_K	Fluorene	Fluorene
CAS_K	Fluoride	Fluoride
CAS_K	Gadolinium	Gadolinium
CAS_K	Gallium	Gallium
CAS_K	gammaBHC	gammaBHC
CAS_K	gammaChlordane	gammaChlordane
CAS_K	Germanium	Germanium
CAS_K	Gold	Gold

CAS_K	Hardness_CaCO3	Hardness_CaCO3
CAS_K	Heptachlor	Heptachlor
CAS_K	HeptachorEpox	HeptachorEpox
CAS_K	Hexachloroethane	Hexachloroethane
CAS_K	Holmium	Holmium
CAS_K	HxClBenzene	HxClBenzene
CAS_K	HxClButadiene	HxClButadiene
CAS_K	Ind123CdPyrene	Ind123CdPyrene
CAS_K	Indium	Indium
FGS	Inorganic As	As_inorg
CAS_K	Iron	Iron
CAS_K	Isophorone	Isophorone
CAS_K	Lanthanum	Lanthanum
CAS_K	Lead	Lead
CAS_K	Lithium	Lithium
CAS_K	Lutetium	Lutetium
CAS_K	Magnesium	Magnesium
CAS_K	Manganese	Manganese
CAS_K	Mercury	Mercury
CAS_K	Methoxychlor	Methoxychlor
CAS_K	Molybdenum	Molybdenum
CAS_K	Naphthalene	Naphthalene
CAS_K	Neodymium	Neodymium
CAS_K	Nickel	Nickel
CAS_K	Niobium	Niobium
CAS_K	Nitrite-Nitrate	Nitrite-Nitrate
CAS_K	Nitrobenzene	Nitrobenzene
CAS_K	NNitDiNPropAmine	NNitDiNPropAmine
CAS_K	NNitDiPhenAmine	NNitDiPhenAmine
SGS NC	OCDD	OctClDiBzDioxin
SGS NC	OCDF	OctClDiBzFuran
CAS_K	Oxychlorane	Oxychlorane
CASH	PCB_cong_105	PCB105
CASH	PCB_cong_114	PCB114
CASH	PCB_cong_118	PCB118
CASH	PCB_cong_123	PCB123
CASH	PCB_cong_126	PCB126
CASH	PCB_cong_156+157	PCB156+157

CASH	PCB_cong_156L+15	PCB156L+157L
CASH	PCB_cong_167	PCB167
CASH	PCB_cong_169	PCB169
CASH	PCB_cong_189	PCB189
CASH	PCB_cong_77	PCB077
CASH	PCB_cong_81	PCB081
CAS_K	PenClPhenol	PenClPhenol
CAS_K	Perylene	Perylene
CAS_K	pH	pH
CAS_K	Phenanthrene	Phenanthrene
CAS_K	Phenol	Phenol
CAS_K	Phenol-d6	PhenolD6
CAS_K	Phosphorus	Phosphorus
CAS_K	Potassium	Potassium
CAS_K	Praseodymium	Praseodymium
CAS_K	PrClCycPenDiene	HxCYCycPenDiene
CAS_K	p-Terphenyl-d14	pTerphenylD14
CAS_K	Pyrene	Pyrene
PACE	Radium-226	Ra_226
CAS_K	Rubidium	Rubidium
CAS_K	Samarium	Samarium
CAS_K	Scandium	Scandium
CAS_K	Selenium	Selenium
CAS_K	Silica	Silica
CAS_K	Silicon	Silicon
CAS_K	Silver	Silver
CAS_K	Sodium	Sodium
CAS_K	Strontium	Strontium
CAS_K	Sulfate	Sulfate
CAS_K	Tantalum	Tantalum
CAS_K	TDS	TDS
CAS_K	Tellurium	Tellurium
CAS_K	Terbium	Terbium
CAS_K	Tetrachloro-m-xy	TetraCl-m-xylene
CAS_K	Tetrachloro-m-xylene	TetraCl-m-xylene
CAS_K	TetraCl-m-xylene	TetraCl-m-xylene
CAS_K	TetrClEth	TetraClEth
CAS_K	Thallium	Thallium

CAS_K	Thorium	Thorium
CAS_K	Thulium	Thulium
CAS_K	Tin	Tin
CAS_K	Titanium	Titanium
CAS_K	TOC	TOC
SGS NC	Total HpCDDs	HpClDiBzDioxin
SGS NC	Total HpCDFs	HpClDiBzFuran
SGS NC	Total HxCDDs	HxCldiBzDioxin
SGS NC	Total HxCDFs	HxCldiBzFuran
SGS NC	Total PeCDDs	PenClDiBzDioxin
SGS NC	Total PeCDFs	PenClDiBzFuran
SGS NC	Total TCDDs	TetClDiBzDioxin
SGS NC	Total TCDFs	TetClDiBzFuran
CAS_K	TotChlordane	TotChlordane
CAS_K	Toxaphene	Toxaphene
CAS_K	transNonachlor	transNonachlor
CAS_K	TSS	TSS
CAS_K	Tungsten	Tungsten
CAS_K	Uranium	Uranium
PACE	Uranium-238	U-238
CAS_K	Vanadium	Vanadium
SGS NC	WHO-2005 TEQ (ND=0)	PCB_TEQ_WHO05_0
SGS NC	WHO-2005 TEQ (ND=½)	PCB_TEQ_WHO05_H
CAS_K	Ytterbium	Ytterbium
CAS_K	Yttrium	Yttrium
CAS_K	Zinc	Zinc
CAS_K	13C_PCB_cong_1	PCB001L
CAS_K	13C_PCB_cong_104	PCB104L
CAS_K	13C_PCB_cong_105	PCB105L
CAS_K	13C_PCB_cong_111	PCB111L
CAS_K	13C_PCB_cong_114	PCB114L
CAS_K	13C_PCB_cong_118	PCB118L
CAS_K	13C_PCB_cong_123	PCB123L
CAS_K	13C_PCB_cong_126	PCB126L
CAS_K	13C_PCB_cong_15	PCB015L
CAS_K	13C_PCB_cong_155	PCB155L
CAS_K	13C_PCB_cong_167	PCB167L
CAS_K	13C_PCB_cong_169	PCB169L

CAS_K	13C_PCB_cong_178	PCB178L
CAS_K	13C_PCB_cong_188	PCB188L
CAS_K	13C_PCB_cong_189	PCB189L
CAS_K	13C_PCB_cong_19	PCB019L
CAS_K	13C_PCB_cong_202	PCB202L
CAS_K	13C_PCB_cong_205	PCB205L
CAS_K	13C_PCB_cong_206	PCB206L
CAS_K	13C_PCB_cong_208	PCB208L
CAS_K	13C_PCB_cong_28	PCB028L
CAS_K	13C_PCB_cong_3	PCB003L
CAS_K	13C_PCB_cong_37	PCB037L
CAS_K	13C_PCB_cong_4	PCB004L
CAS_K	13C_PCB_cong_54	PCB054L
CAS_K	13C_PCB_cong_77	PCB077L
CAS_K	13C_PCB_cong_81	PCB081L
CAS_K	13CDecClBiphenyl	PCB209L
CAS_K	PCB_129+138+163	PCB129+138+163
CAS_K	PCB_40+41+71	PCB040+041+071
CAS_K	PCB_44+47+65	PCB044+047+065
CAS_K	PCB_59+62+75	PCB059+062+075
CAS_K	PCB_61+70+74+76	PCB061+070+2m
CAS_K	PCB_86+87+97+3m	PCB086+087+4ma
CAS_K	PCB_90+101+113	PCB090+101+113
CAS_K	PCB_cong_10	PCB010
CAS_K	PCB_cong_103	PCB103
CAS_K	PCB_cong_104	PCB104
CAS_K	PCB_cong_105	PCB105
CAS_K	PCB_cong_106	PCB106
CAS_K	PCB_cong_107	PCB107
CAS_K	PCB_cong_11	PCB011
CAS_K	PCB_cong_110+115	PCB110+115
CAS_K	PCB_cong_111	PCB111
CAS_K	PCB_cong_112	PCB112
CAS_K	PCB_cong_114	PCB114
CAS_K	PCB_cong_117	PCB117
CAS_K	PCB_cong_118	PCB118
CAS_K	PCB_cong_12+13	PCB012+013
CAS_K	PCB_cong_120	PCB120

CAS_K	PCB_cong_121	PCB121
CAS_K	PCB_cong_122	PCB122
CAS_K	PCB_cong_123	PCB123
CAS_K	PCB_cong_126	PCB126
CAS_K	PCB_cong_127	PCB127
CAS_K	PCB_cong_128+166	PCB128+166
CAS_K	PCB_cong_130	PCB130
CAS_K	PCB_cong_131	PCB131
CAS_K	PCB_cong_132	PCB132
CAS_K	PCB_cong_133	PCB133
CAS_K	PCB_cong_134	PCB134
CAS_K	PCB_cong_135+151	PCB135+151
CAS_K	PCB_cong_136	PCB136
CAS_K	PCB_cong_137	PCB137
CAS_K	PCB_cong_139+140	PCB139+140
CAS_K	PCB_cong_141	PCB141
CAS_K	PCB_cong_142	PCB142
CAS_K	PCB_cong_143	PCB143
CAS_K	PCB_cong_144	PCB144
CAS_K	PCB_cong_145	PCB145
CAS_K	PCB_cong_146	PCB146
CAS_K	PCB_cong_147+149	PCB147+149
CAS_K	PCB_cong_148	PCB148
CAS_K	PCB_cong_150	PCB150
CAS_K	PCB_cong_152	PCB152
CAS_K	PCB_cong_153+168	PCB153+168
CAS_K	PCB_cong_154	PCB154
CAS_K	PCB_cong_155	PCB155
CAS_K	PCB_cong_156+157	PCB156+157
CAS_K	PCB_cong_156L+157L	PCB156L+157L
CAS_K	PCB_cong_158	PCB158
CAS_K	PCB_cong_159	PCB159
CAS_K	PCB_cong_16	PCB016
CAS_K	PCB_cong_160	PCB160
CAS_K	PCB_cong_161	PCB161
CAS_K	PCB_cong_162	PCB162
CAS_K	PCB_cong_164	PCB164
CAS_K	PCB_cong_165	PCB165

CAS_K	PCB_cong_167	PCB167
CAS_K	PCB_cong_169	PCB169
CAS_K	PCB_cong_17	PCB017
CAS_K	PCB_cong_170	PCB170
CAS_K	PCB_cong_171+173	PCB171+173
CAS_K	PCB_cong_172	PCB172
CAS_K	PCB_cong_174	PCB174
CAS_K	PCB_cong_175	PCB175
CAS_K	PCB_cong_176	PCB176
CAS_K	PCB_cong_177	PCB177
CAS_K	PCB_cong_178	PCB178
CAS_K	PCB_cong_179	PCB179
CAS_K	PCB_cong_18+30	PCB018+030
CAS_K	PCB_cong_180+193	PCB180+193
CAS_K	PCB_cong_181	PCB181
CAS_K	PCB_cong_182	PCB182
CAS_K	PCB_cong_183	PCB183
CAS_K	PCB_cong_184	PCB184
CAS_K	PCB_cong_185	PCB185
CAS_K	PCB_cong_186	PCB186
CAS_K	PCB_cong_187	PCB187
CAS_K	PCB_cong_188	PCB188
CAS_K	PCB_cong_189	PCB189
CAS_K	PCB_cong_19	PCB019
CAS_K	PCB_cong_190	PCB190
CAS_K	PCB_cong_191	PCB191
CAS_K	PCB_cong_192	PCB192
CAS_K	PCB_cong_194	PCB194
CAS_K	PCB_cong_195	PCB195
CAS_K	PCB_cong_196	PCB196
CAS_K	PCB_cong_197	PCB197
CAS_K	PCB_cong_198+199	PCB198+199
CAS_K	PCB_cong_20+28	PCB020+028
CAS_K	PCB_cong_200	PCB200
CAS_K	PCB_cong_201	PCB201
CAS_K	PCB_cong_202	PCB202
CAS_K	PCB_cong_203	PCB203
CAS_K	PCB_cong_204	PCB204

CAS_K	PCB_cong_205	PCB205
CAS_K	PCB_cong_206	PCB206
CAS_K	PCB_cong_207	PCB207
CAS_K	PCB_cong_208	PCB208
CAS_K	PCB_cong_21+33	PCB021+033
CAS_K	PCB_cong_22	PCB022
CAS_K	PCB_cong_23	PCB023
CAS_K	PCB_cong_24	PCB024
CAS_K	PCB_cong_25	PCB025
CAS_K	PCB_cong_26+29	PCB026+029
CAS_K	PCB_cong_27	PCB027
CAS_K	PCB_cong_31	PCB031
CAS_K	PCB_cong_32	PCB032
CAS_K	PCB_cong_34	PCB034
CAS_K	PCB_cong_35	PCB035
CAS_K	PCB_cong_36	PCB036
CAS_K	PCB_cong_37	PCB037
CAS_K	PCB_cong_38	PCB038
CAS_K	PCB_cong_39	PCB039
CAS_K	PCB_cong_4	PCB004
CAS_K	PCB_cong_42	PCB042
CAS_K	PCB_cong_43+73	PCB043+073
CAS_K	PCB_cong_45+51	PCB045+051
CAS_K	PCB_cong_46	PCB046
CAS_K	PCB_cong_48	PCB048
CAS_K	PCB_cong_49+69	PCB049+069
CAS_K	PCB_cong_5	PCB005
CAS_K	PCB_cong_50+53	PCB050+053
CAS_K	PCB_cong_52	PCB052
CAS_K	PCB_cong_54	PCB054
CAS_K	PCB_cong_55	PCB055
CAS_K	PCB_cong_56	PCB056
CAS_K	PCB_cong_57	PCB057
CAS_K	PCB_cong_58	PCB058
CAS_K	2Cl11pBiphenyl	PCB001
CAS_K	35DiClBiphenyl	PCB014
CAS_K	3ClBiphenyl	PCB002
CAS_K	44DiClBiphenyl	PCB015

CAS_K	4Cl11Biphenyl	PCB003
CAS_K	PCB_cong_6	PCB006
CAS_K	PCB_cong_60	PCB060
CAS_K	PCB_cong_63	PCB063
CAS_K	PCB_cong_64	PCB064
CAS_K	PCB_cong_156L+15	PCB156L+157L
CAS_K	PCB_43+73	PCB043+073
CAS_K	PCB_49+69	PCB049+069
CAS_K	PCB_70+61+74+76	PCB061+070+2m
CAS_K	PCB_85+116	PCB085+116
CAS_K	PCB_86+87+97+109	PCB086+087+4ma
CAS_K	PCB_93+100	PCB093+100
CAS_K	PCB_98+102	PCB098+102
CAS_K	PCB_cong_108-124	PCB108+124
CAS_K	PCB_cong_129+138	PCB129+138+163
CAS_K	Coelution of PCB	PCB045+051
CAS_K	PCB_108+124	PCB108+124
CAS_K	PCB_135+151	PCB135+151
CAS_K	PCB_cong_108+124	PCB108+124
CAS_K	Fluoranth-d10	
CAS_K	Specific Gravity	SpGravity
CAS_K	Water Content	Moisture

lab	lab_basis	idb_basis
CAS_K	Dry	DryWt
CAS_K	NA	Unfilt
CAS_K	Dissolved	Dissolved
CAS_K	Unfilt	Unfilt
CAS_K	WetWt	WetWt
CAS_K	Wet	WetWt
CAS_K	PerSamp	PerSamp
CAS_K	Total	Unfilt

lab	lab_instrument_type	idb_instrument_type
CAS_K	High Resolution Mass Spectrometer	HRMS
CAS_K	Walkley-Black	WalkleyBlk

lab	lab_qc_type	idb_qc_type
CAS_K	LCSDuplicate	LCSDUP
CAS_K	LCS	LCS
CAS_K	MethodBlank	MethodBlank
CAS_K	Blank	MethodBlank
CAS_K	LCSD	LCSDUP
CAS_K	MS	MatSpike
CAS_K	MSD	MatSpikeDup

lab	lab_material_analyzed	idb_material_analyzed
CAS_K	Filter	Wipes
CAS_K	Wipe	Wipes

lab	lab_unit_code	units
SGS NC	NG/L	ng/L
SGS NC	PG/G	pg/g
SGS NC	PG/L	pg/L
SGS NC	PG/UL	pg/uL
CAS_K	mg/L	mg/L
CAS_K	SU	SU
CAS_K	ug/L	ug/L
FGS	ug/l	ug/L
CAS_K	ng/L	ng/L
Isotech	promille	promille
PACE	pCi/L	pCi/L
CAS_K	ug/WIPE	ug

tbl_name	fld_name	fld_type	fld_size	fld_required	pg_type	PK_yn	FK_yn	PK	FK	tbl_foreign
d_area	area_id	dbText	40	No	character varying(40)	Yes	No	area_id;	FK	
d_area	description	dbMemo	0	No	character varying(255) or character varying	No	No			
d_area	area_type	dbText	10	No	character varying(10)	No	Yes		area_type	e_areatype
d_area	defining_doc	dbText	12	No	character varying(12)	No	Yes		doc_id	d_document
d_area	area_geom	dbMemo	0	No	character varying(255) or character varying	No	No			
d_area	area_category	dbText	50	No	character varying(50)	No	No			
d_area	shapefile	dbText	64	No	character varying(64)	No	No			
d_bioaccumbat	lab	dbText	10	No	character varying(10)	Yes	Yes	lab; bioaccum_batch;	lab	e_lab
d_bioaccumbat	bioaccum_batch	dbText	12	No	character varying(12)	Yes	No	lab; bioaccum_batch;		
d_bioaccumbat	taxon	dbText	16	No	character varying(16)	No	Yes		taxon_code	e_taxon
d_bioaccumbat	start_date	dbDate	8	No	timestamp without time zone	No	No			
d_bioaccumbat	end_date	dbDate	8	No	timestamp without time zone	No	No			
d_bioaccumbat	sop	dbText	12	No	character varying(12)	No	Yes		doc_id	d_document
d_bioaccumbat	qa_level	dbText	12	No	character varying(12)	No	No			
d_bioaccumbat	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_bioaccumbat	bioaccumbat_alias	dbLong	4	No	bigserial or integer	No	No			
d_bioaccumsamp	study_id	dbText	25	No	character varying(25)	Yes	Yes	study_id; bioaccum_sno;	study_id	d_bioaccumtest
d_bioaccumsamp	bioaccum_sno	dbText	20	No	character varying(20)	Yes	No	study_id; bioaccum_sno;		
d_bioaccumsamp	sample_id	dbText	20	No	character varying(20)	No	Yes		sample_id	d_bioaccumtest
d_bioaccumsamp	lab	dbText	10	No	character varying(10)	No	Yes		lab	d_bioaccumtest
d_bioaccumsamp	bioaccum_batch	dbText	12	No	character varying(12)	No	Yes		bioaccum_batch	d_bioaccumtest
d_bioaccumsamp	sample_material	dbText	20	No	character varying(20)	No	No			
d_bioaccumsamp	bioaccumsamp_alias	dbLong	4	No	bigserial or integer	No	No			
d_bioaccumtest	lab	dbText	10	No	character varying(10)	Yes	Yes	lab; bioaccum_batch; study_id; sample_id;	lab	d_bioaccumbat
d_bioaccumtest	bioaccum_batch	dbText	12	No	character varying(12)	Yes	Yes	lab; bioaccum_batch; study_id; sample_id;	bioaccum_batch	d_bioaccumbat
d_bioaccumtest	study_id	dbText	25	No	character varying(25)	Yes	Yes	lab; bioaccum_batch; study_id; sample_id;	study_id	d_sampmain
d_bioaccumtest	sample_id	dbText	20	No	character varying(20)	Yes	Yes	lab; bioaccum_batch; study_id; sample_id;	sample_id	d_sampmain
d_bioaccumtest	bioaccumtest_alias	dbLong	4	No	bigserial or integer	No	No			
d_bioasbat	lab	dbText	10	No	character varying(10)	Yes	Yes	lab; bioas_batch;	lab	e_lab
d_bioasbat	bioas_batch	dbText	12	No	character varying(12)	Yes	No	lab; bioas_batch;		
d_bioasbat	bioas_type	dbText	10	No	character varying(10)	No	Yes		bioas_type	e_bioasstype
d_bioasbat	taxon	dbText	16	No	character varying(16)	No	Yes		taxon_code	e_taxon
d_bioasbat	start_date	dbDate	8	No	timestamp without time zone	No	No			
d_bioasbat	end_date	dbDate	8	No	timestamp without time zone	No	No			
d_bioasbat	qa_level	dbText	10	No	character varying(10)	No	Yes		qa_level	e_qalevel
d_bioasbat	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_bioasbat	bioasbat_alias	dbLong	4	No	bigserial or integer	No	No			
d_bioasctl	lab	dbText	10	Yes	character varying(10)	Yes	Yes	lab; bioas_batch; bioas_var; control_sample; dilution; lab_rep; bioas_meas;	lab	d_bioasbat
d_bioasctl	bioas_batch	dbText	12	Yes	character varying(12)	Yes	Yes	lab; bioas_batch; bioas_var; control_sample; dilution; lab_rep; bioas_meas;	bioas_batch	d_bioasbat
d_bioasctl	bioas_var	dbText	10	Yes	character varying(10)	Yes	Yes	lab; bioas_batch; bioas_var; control_sample; dilution; lab_rep; bioas_meas;	bioas_var	e_bioasvar
d_bioasctl	control_sample	dbText	16	Yes	character varying(16)	Yes	No	lab; bioas_batch; bioas_var; control_sample; dilution; lab_rep; bioas_meas;		
d_bioasctl	dilution	dbDouble	8	Yes	double precision	Yes	No	lab; bioas_batch; bioas_var; control_sample; dilution; lab_rep; bioas_meas;		
d_bioasctl	lab_rep	dbText	6	Yes	character varying(6)	Yes	No	lab; bioas_batch; bioas_var; control_sample; dilution; lab_rep; bioas_meas;		
d_bioasctl	bioas_meas	dbText	10	Yes	character varying(10)	Yes	Yes	lab; bioas_batch; bioas_var; control_sample; dilution; lab_rep; bioas_meas;	bioas_meas	e_bioasmeas
d_bioasctl	bioas_value	dbDouble	8	Yes	double precision	No	No			
d_bioasctl	bioas_unit	dbText	10	Yes	character varying(10)	No	Yes		bioas_unit	e_bioasunit
d_bioasctl	bioas_qual	dbText	2	No	character varying(2)	No	Yes		bioas_qual	e_bioasqual
d_bioasctl	reportable	dbBoolean	1	Yes	boolean	No	No			
d_bioasctl	bioasctl_alias	dbLong	4	No	bigserial or integer	No	No			
d_bioasctl	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_bioasdat	study_id	dbText	25	No	character varying(25)	Yes	Yes	study_id; sample_id; lab; bioas_batch; bioas_var; dilution; lab_rep; bioas_meas;	study_id	d_sampmain
d_bioasdat	sample_id	dbText	20	No	character varying(20)	Yes	Yes	study_id; sample_id; lab; bioas_batch; bioas_var; dilution; lab_rep; bioas_meas;	sample_id	d_sampmain
d_bioasdat	lab	dbText	10	No	character varying(10)	Yes	Yes	study_id; sample_id; lab; bioas_batch; bioas_var; dilution; lab_rep; bioas_meas;	lab	e_lab
d_bioasdat	bioas_batch	dbText	12	No	character varying(12)	Yes	Yes	study_id; sample_id; lab; bioas_batch; bioas_var; dilution; lab_rep; bioas_meas;	bioas_batch	d_bioasbat
d_bioasdat	bioas_var	dbText	10	No	character varying(10)	Yes	Yes	study_id; sample_id; lab; bioas_batch; bioas_var; dilution; lab_rep; bioas_meas;	bioas_var	e_bioasvar
d_bioasdat	dilution	dbSingle	4	No	real	Yes	No	study_id; sample_id; lab; bioas_batch; bioas_var; dilution; lab_rep; bioas_meas;		
d_bioasdat	lab_rep	dbText	6	No	character varying(6)	Yes	No	study_id; sample_id; lab; bioas_batch; bioas_var; dilution; lab_rep; bioas_meas;		
d_bioasdat	bioas_meas	dbText	10	No	character varying(10)	Yes	Yes	study_id; sample_id; lab; bioas_batch; bioas_var; dilution; lab_rep; bioas_meas;	bioas_meas	e_bioasmeas
d_bioasdat	bioas_value	dbSingle	4	No	real	No	No			
d_bioasdat	bioas_unit	dbText	10	Yes	character varying(10)	No	Yes		bioas_unit	e_bioasunit
d_bioasdat	bioas_qual	dbText	2	No	character varying(2)	No	Yes		bioas_qual	e_bioasqual
d_bioasdat	reportable	dbBoolean	1	No	boolean	No	No			
d_bioasdat	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_bioasdat	bioasdat_alias	dbLong	4	No	bigserial or integer	No	No			
d_criteria	critcode	dbText	50	No	character varying(50)	Yes	Yes	critcode; analyte; meas_basis; range_limit;	critcode	d_criteriadefts
d_criteria	analyte	dbText	16	No	character varying(16)	Yes	Yes	critcode; analyte; meas_basis; range_limit;	analyte	e_analyte
d_criteria	crit_value	dbDouble	8	No	double precision	No	No			
d_criteria	unit	dbText	10	No	character varying(10)	No	Yes		unit	e_unit
d_criteria	meas_basis	dbText	10	No	character varying(10)	Yes	Yes		meas_basis	e_measbasis
d_criteria	material	dbText	20	No	character varying(20)	No	Yes		material	e_material
d_criteria	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_criteria	hardness_dependent	dbBoolean	1	No	boolean	No	No			

d_criteria	hd_m	dbDouble	8	No	double precision	No	No		
d_criteria	hd_b	dbDouble	8	No	double precision	No	No		
d_criteria	cf_b	dbDouble	8	No	double precision	No	No		
d_criteria	cf_m	dbDouble	8	No	double precision	No	No		
d_criteria	ph_dependent	dbBoolean	1	No	boolean	No	No		
d_criteria	ph_m	dbDouble	8	No	double precision	No	No		
d_criteria	ph_b	dbDouble	8	No	double precision	No	No		
d_criteria	range_limit	dbText	5	No	character varying(5)	Yes	No		
d_criteriadefts	critcode	dbText	50	No	character varying(50)	Yes	No	critcode;	
d_criteriadefts	critdescrip	dbMemo	0	No	character varying(255) or character varying	No	No		
d_criteriadefts	crityear	dbText	4	No	character varying(4)	No	No		
d_criteriadefts	doc_id	dbText	12	No	character varying(12)	No	No		
d_criteriadefts	comments	dbMemo	0	No	character varying(255) or character varying	No	No		
d_criteriadefts	resource	dbText	10	No	character varying(10)	No	No		
d_criteriadefts	material	dbText	20	No	character varying(20)	No	Yes	material	e_material
d_criteriadefts	guideline_type	dbText	10	No	character varying(10)	No	No		
d_dbhistory	change_date	dbDate	8	No	timestamp without time zone	No	No		
d_dbhistory	addition	dbBoolean	1	No	boolean	No	No		
d_dbhistory	edit	dbBoolean	1	No	boolean	No	No		
d_dbhistory	deletion	dbBoolean	1	No	boolean	No	No		
d_dbhistory	documents	dbBoolean	1	No	boolean	No	No		
d_dbhistory	sample_info	dbBoolean	1	No	boolean	No	No		
d_dbhistory	chem_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	chemqc_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	tox_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	toxqc_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	bioaccum_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	spabund_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	location_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	area_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	gis_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	party_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	facility_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	crit_data	dbBoolean	1	No	boolean	No	No		
d_dbhistory	comments	dbMemo	0	No	character varying(255) or character varying	No	No		
d_dbhistory	data_manager	dbText	32	No	character varying(32)	No	No		
d_dockwd	doc_id	dbText	12	No	character varying(12)	Yes	Yes	doc_id; keyword;	doc_id
d_dockwd	keyword	dbText	25	No	character varying(25)	Yes	Yes	doc_id; keyword;	d_document
d_doclink	parent_doc	dbText	12	No	character varying(12)	Yes	No	parent_doc; doc_rel; child_doc;	e_keyword
d_doclink	doc_rel	dbText	12	No	character varying(12)	Yes	No	parent_doc; doc_rel; child_doc;	
d_doclink	child_doc	dbText	12	No	character varying(12)	Yes	No	parent_doc; doc_rel; child_doc;	
d_document	doc_id	dbText	12	No	character varying(12)	Yes	No	doc_id;	
d_document	pub_year	dbInteger	2	No	smallint	No	No		
d_document	authors	dbText	150	No	character varying(150)	No	No		
d_document	title	dbText	250	No	character varying(250)	No	No		
d_document	publisher	dbText	150	No	character varying(150)	No	No		
d_document	pub_date	dbDate	8	No	timestamp without time zone	No	No		
d_document	pub_loc	dbText	100	No	character varying(100)	No	No		
d_document	doc_type	dbText	50	No	character varying(50)	No	Yes	doc_type	e_doctype
d_document	url	dbText	250	No	character varying(250)	No	No		
d_document	abstract	dbMemo	0	No	character varying(255) or character varying	No	No		
d_document	first_page	dbInteger	2	No	smallint	No	No		
d_document	last_page	dbInteger	2	No	smallint	No	No		
d_document	total_pages	dbInteger	2	No	smallint	No	No		
d_document	sent_from	dbText	150	No	character varying(150)	No	No		
d_document	sent_to	dbText	150	No	character varying(150)	No	No		
d_document	filename	dbText	64	No	character varying(64)	No	No		
d_document	file_loc	dbText	128	No	character varying(128)	No	No		
d_document	bates_prefix	dbText	8	No	character varying(8)	No	No		
d_document	bates_start	dbText	10	No	character varying(10)	No	No		
d_document	bates_end	dbText	10	No	character varying(10)	No	No		
d_document	int_lib_id	dbText	12	No	character varying(12)	No	No		
d_document	other_lib_id	dbText	12	No	character varying(12)	No	No		
d_document	doc_cat	dbText	24	No	character varying(24)	No	Yes	doc_cat	e_doccat
d_event	event_id	dbText	12	No	character varying(12)	Yes	No	event_id;	
d_event	event_type	dbText	10	No	character varying(10)	No	No		
d_event	description	dbMemo	0	No	character varying(255) or character varying	No	No		
d_event	event_date	dbDate	8	No	timestamp without time zone	No	No		
d_event	event_occurred	dbBoolean	1	No	boolean	No	No		
d_event	event_duration	dbDouble	8	No	double precision	No	No		
d_event	duration_units	dbText	10	No	character varying(10)	No	No		
d_event	primary_document	dbText	12	No	character varying(12)	No	No		
d_eventarea	event_id	dbText	12	No	character varying(12)	Yes	No	event_id; area_id;	

d_eventarea	area_id	dbText	40	No	character varying(40)	Yes	No	event_id; area_id;		
d_eventarea	doc_id	dbText	12	No	character varying(12)	No	No			
d_eventdoc	event_id	dbText	12	No	character varying(12)	Yes	No	event_id; doc_id;		
d_eventdoc	doc_id	dbText	12	No	character varying(12)	Yes	No	event_id; doc_id;		
d_eventlocation	event_id	dbText	12	No	character varying(12)	Yes	No	event_id; location_id;		
d_eventlocation	location_id	dbText	20	No	character varying(20)	Yes	No	event_id; location_id;		
d_eventlocation	doc_id	dbText	12	No	character varying(12)	No	No			
d_eventparty	event_id	dbText	12	No	character varying(12)	Yes	No	event_id; party_id;		
d_eventparty	party_id	dbText	16	No	character varying(16)	Yes	No	event_id; party_id;		
d_eventparty	party_role	dbText	10	No	character varying(10)	No	No			
d_eventparty	doc_id	dbText	12	No	character varying(12)	No	No			
d_fldqcsamp	study_id	dbText	25	Yes	character varying(25)	Yes	Yes	study_id; qc/sample_id;	study_id	d_study
d_fldqcsamp	qc/sample_id	dbText	20	Yes	character varying(20)	Yes	No	study_id; qc/sample_id;		
d_fldqcsamp	qc_type	dbText	12	Yes	character varying(12)	No	Yes		qc_type	e_qctype
d_fldqcsamp	fldqc_group	dbText	12	Yes	character varying(12)	No	No			
d_fldqcsamp	sample_date	dbDate	8	No	timestamp without time zone	No	No			
d_fldqcsamp	srn_id	dbText	50	No	character varying(50)	No	No			
d_fldqcsamp	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_fldqcsplit	study_id	dbText	25	Yes	character varying(25)	Yes	Yes	study_id; fldqc_sno;	study_id	d_fldqcsamp
d_fldqcsplit	fldqc_sno	dbText	20	Yes	character varying(20)	Yes	No	study_id; fldqc_sno;		
d_fldqcsplit	qc/sample_id	dbText	20	Yes	character varying(20)	No	Yes		qc/sample_id	d_fldqcsamp
d_fldqcsplit	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_histopath	study_id	dbText	25	Yes	character varying(25)	Yes	Yes	study_id; sample_id; organ; lesion_type;	study_id	d_sampmain
d_histopath	sample_id	dbText	20	Yes	character varying(20)	Yes	Yes	study_id; sample_id; organ; lesion_type;	sample_id	d_sampmain
d_histopath	organ	dbText	20	Yes	character varying(20)	Yes	Yes	study_id; sample_id; organ; lesion_type;	sample_material	e_sampmaterial
d_histopath	lesion_type	dbText	6	Yes	character varying(6)	Yes	Yes	study_id; sample_id; organ; lesion_type;	lesion_type	e_lesiontype
d_histopath	lesion_severity	dbText	15	Yes	character varying(15)	No	Yes		lesion_severity	e_lesionsev
d_histopath	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_labcalbatch	lab	dbText	10	No	character varying(10)	Yes	No	lab; lab_cal_batch;		
d_labcalbatch	lab_cal_batch	dbText	16	No	character varying(16)	Yes	No	lab; lab_cal_batch;		
d_labcalbatch	instrument_type	dbText	10	No	character varying(10)	No	No			
d_labcalbatch	instrument_id	dbText	16	No	character varying(16)	No	No			
d_labcalbatch	initial_cal_date	dbDate	8	No	timestamp without time zone	No	No			
d_labpkg	lab	dbText	10	No	character varying(10)	Yes	Yes	lab; lab_pkg; anal_type;	lab	e_lab
d_labpkg	lab_pkg	dbText	16	No	character varying(16)	Yes	No	lab; lab_pkg; anal_type;		
d_labpkg	anal_type	dbText	10	No	character varying(10)	Yes	No	lab; lab_pkg; anal_type;		
d_labpkg	anal_begun	dbDate	8	No	timestamp without time zone	No	No			
d_labpkg	anal_completed	dbDate	8	No	timestamp without time zone	No	No			
d_labpkg	analyst	dbText	32	No	character varying(32)	No	No			
d_labpkg	eddd_format	dbMemo	0	No	character varying(255) or character varying	No	No			
d_labpkg	eddd_filename	dbMemo	0	No	character varying(255) or character varying	No	No			
d_labpkg	qalevel_target	dbText	10	No	character varying(10)	No	Yes		qa_level	e_qalevel
d_labpkg	qalevel_applied	dbText	10	No	character varying(10)	No	Yes		qa_level	e_qalevel
d_labpkg	validated_by	dbText	32	No	character varying(32)	No	No			
d_labpkg	validation_done	dbDate	8	No	timestamp without time zone	No	No			
d_labpkg	pkg_alias	dbLong	4	No	bigserial or integer	No	No			
d_labpkg	defining_doc	dbText	12	No	character varying(12)	No	No			
d_labpkg	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_labqcbatch	lab	dbText	10	No	character varying(10)	Yes	No	lab; lab_qc_batch;		
d_labqcbatch	lab_qc_batch	dbText	16	No	character varying(16)	Yes	No	lab; lab_qc_batch;		
d_labqcbatch	prep_date	dbDate	8	No	timestamp without time zone	No	No			
d_labqcbatch	extraction_date	dbDate	8	No	timestamp without time zone	No	No			
d_labqcsamp	lab	dbText	10	Yes	character varying(10)	Yes	Yes	lab; labqc_samp;	lab	e_lab
d_labqcsamp	labqc_samp	dbText	20	Yes	character varying(20)	Yes	No	lab; labqc_samp;		
d_labqcsamp	qc_type	dbText	12	Yes	character varying(12)	No	Yes		qc_type	e_qctype
d_labqcsamp	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_labresult	lab	dbText	10	No	character varying(10)	Yes	Yes	lab; lab_pkg; anal_type; labsample; material_analyzed; method_code; analyte; meas_basis; lab_rep;	lab	d_labpkg
d_labresult	lab_pkg	dbText	16	No	character varying(16)	Yes	Yes	lab; lab_pkg; anal_type; labsample; material_analyzed; method_code; analyte; meas_basis; lab_rep;	lab_pkg	d_labpkg
d_labresult	anal_type	dbText	10	No	character varying(10)	Yes	Yes	lab; lab_pkg; anal_type; labsample; material_analyzed; method_code; analyte; meas_basis; lab_rep;	anal_type	d_labpkg
d_labresult	labsample	dbText	20	No	character varying(20)	Yes	Yes	lab; lab_pkg; anal_type; labsample; material_analyzed; method_code; analyte; meas_basis; lab_rep;	labsample	d_labsample
d_labresult	material_analyzed	dbText	20	No	character varying(20)	Yes	Yes	lab; lab_pkg; anal_type; labsample; material_analyzed; method_code; analyte; meas_basis; lab_rep;	sample_material	e_sampmaterial
d_labresult	method_code	dbText	15	No	character varying(15)	Yes	Yes	lab; lab_pkg; anal_type; labsample; material_analyzed; method_code; analyte; meas_basis; lab_rep;	method_code	e_analmethod
d_labresult	analyte	dbText	16	No	character varying(16)	Yes	Yes	lab; lab_pkg; anal_type; labsample; material_analyzed; method_code; analyte; meas_basis; lab_rep;	analyte	e_analyte
d_labresult	meas_basis	dbText	10	No	character varying(10)	Yes	Yes	lab; lab_pkg; anal_type; labsample; material_analyzed; method_code; analyte; meas_basis; lab_rep;	meas_basis	e_measbasis

Field	Table	Field Type	Length	Nullable	Default	Index	PK	FK	Comments	Unit	Alias
d_labresult	lab_rep	dbText	6	No			Yes	No	lab; lab_pkg; anal_type; labsample; material_analyzed; method_code; analyte; meas_basis; lab_rep;		
d_labresult	meas_value	dbDouble	8	Yes			No	No			
d_labresult	units	dbText	10	Yes			No	Yes		unit	e_unit
d_labresult	sig_figs	dbInteger	2	Yes			No	No			
d_labresult	std_dev	dbDouble	8	No			No	No			
d_labresult	detection_limit	dbDouble	8	No			No	No			
d_labresult	reporting_limit	dbDouble	8	No			No	No			
d_labresult	quantification_limit	dbDouble	8	No			No	No			
d_labresult	maximum_limit	dbDouble	8	No			No	No			
d_labresult	lab_conc_qual	dbText	1	No			No	No			
d_labresult	lab_flags	dbText	8	No			No	No			
d_labresult	qa_level	dbText	10	Yes			No	Yes		qa_level	e_qalevel
d_labresult	undetected	dbBoolean	1	Yes			No	No			
d_labresult	estimated	dbBoolean	1	Yes			No	No			
d_labresult	rejected	dbBoolean	1	Yes			No	No			
d_labresult	greater_than	dbBoolean	1	Yes			No	No			
d_labresult	tic	dbBoolean	1	Yes			No	No			
d_labresult	reportable	dbBoolean	1	Yes			No	No			
d_labresult	analresult_alias	dbLong	4	No			No	No			
d_labresult	principal_doc	dbText	12	Yes			No	Yes		doc_id	d_document
d_labresult	comments	dbMemo	0	No			No	No			
d_labresult	validator_flags	dbText	8	No			No	No			
d_labresult	lab_qc_batch	dbText	16	No			No	No			
d_labresult	lab_cal_batch	dbText	16	No			No	No			
d_labsample	lab	dbText	10	No			Yes	Yes	lab; labsample;	lab	e_lab
d_labsample	labsample	dbText	20	No			Yes	No	lab; labsample;		
d_labsample	study_id	dbText	25	No			No	Yes		study_id	d_sampsplit
d_labsample	sample_no	dbText	20	No			No	Yes		sample_no	d_sampsplit
d_labsample	bioaccum_sno	dbText	20	No			No	No			
d_labsample	fldqc_sno	dbText	20	No			No	No			
d_labsample	labqc_samp	dbText	20	No			No	No			
d_labsample	receipt_date	dbDate	8	No			No	No			
d_labsample	coc_id	dbText	12	No			No	No			
d_lcs	lab	dbText	10	Yes			Yes	No	lab; lab_qc_batch; lcs_id; analyte; meas_basis;		
d_lcs	lab_qc_batch	dbText	16	Yes			Yes	No	lab; lab_qc_batch; lcs_id; analyte; meas_basis;		
d_lcs	lcs_id	dbText	25	Yes			Yes	No	lab; lab_qc_batch; lcs_id; analyte; meas_basis;		
d_lcs	analyte	dbText	10	Yes			Yes	No	lab; lab_qc_batch; lcs_id; analyte; meas_basis;		
d_lcs	meas_basis	dbText	10	Yes			Yes	No	lab; lab_qc_batch; lcs_id; analyte; meas_basis;		
d_lcs	lcs_type	dbText	1	Yes			No	No			
d_lcs	true_lcs_conc	dbDouble	8	Yes			No	No			
d_lcs	meas_lcs_conc	dbDouble	8	Yes			No	No			
d_lcs	lcs_lowlimit	dbDouble	8	No			No	No			
d_lcs	lcs_highlimit	dbDouble	8	No			No	No			
d_lcs	units	dbText	10	Yes			No	No			
d_lcs	conc_qual	dbText	1	No			No	No			
d_location	location_id	dbText	60	No			Yes	No	location_id;		
d_location	description	dbText	150	No			No	No			
d_location	loc_type	dbText	15	No			No	No			
d_location	defining_doc	dbText	12	No			No	Yes		doc_id	d_document
d_location	loc_geom	dbText	255	No			No	No			
d_location	elevation	dbSingle	4	No			No	No			
d_location	elev_unit	dbText	10	No			No	No			
d_location	huc	dbText	10	No			No	No			
d_location	river_mile	dbSingle	4	No			No	No			
d_location	river_bank	dbText	8	No			No	Yes		river_bank	e_riverbank
d_location	x_coord	dbDouble	8	No			No	No			
d_location	y_coord	dbDouble	8	No			No	No			
d_location	coord_sys	dbText	30	No			No	No			
d_location	srid	dbInteger	2	No			No	Yes		srid	e_spatialrefsys
d_location	coord_qual	dbText	10	No			No	Yes		coord_qual	e_coordqual
d_location	comments	dbMemo	0	No			No	No			
d_matrixspike	lab	dbText	10	Yes			Yes	Yes	lab; lab_qc_batch; labsample; method_code; analyte; meas_basis; spike_no;	lab	d_labqcbatch
d_matrixspike	lab_qc_batch	dbText	16	Yes			Yes	Yes	lab; lab_qc_batch; labsample; method_code; analyte; meas_basis; spike_no;	lab_qc_batch	d_labqcbatch
d_matrixspike	labsample	dbText	20	Yes			Yes	No	lab; lab_qc_batch; labsample; method_code; analyte; meas_basis; spike_no;		
d_matrixspike	method_code	dbText	10	Yes			Yes	No	lab; lab_qc_batch; labsample; method_code; analyte; meas_basis; spike_no;		
d_matrixspike	analyte	dbText	16	Yes			Yes	No	lab; lab_qc_batch; labsample; method_code; analyte; meas_basis; spike_no;		
d_matrixspike	meas_basis	dbText	10	Yes			Yes	No	lab; lab_qc_batch; labsample; method_code; analyte; meas_basis; spike_no;		
d_matrixspike	spike_no	dbLong	4	Yes			Yes	No	lab; lab_qc_batch; labsample; method_code; analyte; meas_basis; spike_no;		
d_matrixspike	samp_conc	dbDouble	8	Yes			No	No			
d_matrixspike	initial_qual	dbText	1	No			No	No			
d_matrixspike	spike_added	dbDouble	8	Yes			No	No			
d_matrixspike	spiked_conc	dbDouble	8	Yes			No	No			

d_matrixspike	final_qual	dbText	1	No	character varying(1)	No	No			
d_matrixspike	lab_flags	dbText	8	No	character varying(8)	No	No			
d_matrixspike	units	dbText	10	Yes	character varying(10)	No	No			
d_mblksurr	lab	dbText	10	Yes	character varying(10)	Yes	Yes	lab; lab_qc_batch; labsample; method_code; surrogate; column_no;	lab	d_labqcbatch
d_mblksurr	lab_qc_batch	dbText	16	Yes	character varying(16)	Yes	Yes	lab; lab_qc_batch; labsample; method_code; surrogate; column_no;	lab_qc_batch	d_labqcbatch
d_mblksurr	labsample	dbText	20	Yes	character varying(20)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; column_no;		
d_mblksurr	method_code	dbText	15	Yes	character varying(15)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; column_no;		
d_mblksurr	surrogate	dbText	16	Yes	character varying(16)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; column_no;		
d_mblksurr	column_no	dbText	4	Yes	character varying(4)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; column_no;		
d_mblksurr	recovery	dbDouble	8	Yes	double precision	No	No	lab; lab_qc_batch; labsample; method_code; surrogate; column_no;		
d_mblksurr	out_flag	dbText	1	No	character varying(1)	No	No			
d_methodblank	lab	dbText	10	Yes	character varying(10)	Yes	Yes	lab; lab_qc_batch; labsample; method_code; analyte; lab_rep;	lab	d_labsample
d_methodblank	lab_qc_batch	dbText	16	Yes	character varying(16)	Yes	Yes	lab; lab_qc_batch; labsample; method_code; analyte; lab_rep;	lab_qc_batch	d_labqcbatch
d_methodblank	labsample	dbText	20	Yes	character varying(20)	Yes	Yes	lab; lab_qc_batch; labsample; method_code; analyte; lab_rep;	labsample	d_labsample
d_methodblank	method_code	dbText	15	Yes	character varying(15)	Yes	No	lab; lab_qc_batch; labsample; method_code; analyte; lab_rep;		
d_methodblank	analyte	dbText	16	Yes	character varying(16)	Yes	No	lab; lab_qc_batch; labsample; method_code; analyte; lab_rep;		
d_methodblank	lab_rep	dbText	6	Yes	character varying(6)	Yes	No	lab; lab_qc_batch; labsample; method_code; analyte; lab_rep;		
d_methodblank	concentration	dbDouble	8	No	double precision	No	No			
d_methodblank	retention_time	dbDouble	8	No	double precision	No	No			
d_methodblank	units	dbText	10	Yes	character varying(10)	No	No			
d_methodblank	lab_flags	dbText	8	No	character varying(8)	No	No			
d_party	party_id	dbText	16	Yes	character varying(16)	Yes	No	party_id;		
d_party	party_name	dbText	120	No	character varying(120)	No	No			
d_party	party_type	dbText	12	Yes	character varying(12)	No	Yes		party_type	e_partytype
d_party	title	dbMemo	0	No	character varying(255) or character varying	No	No			
d_party	phone	dbText	16	No	character varying(16)	No	No			
d_party	state_incorp	dbMemo	0	No	character varying(255) or character varying	No	No			
d_partyprop	party_id	dbText	16	Yes	character varying(16)	Yes	No	party_id; property_id;		
d_partyprop	property_id	dbText	40	Yes	character varying(40)	Yes	No	party_id; property_id;		
d_partyprop	property_rel	dbText	10	Yes	character varying(10)	No	No			
d_partyprop	beginning_date	dbDate	8	No	timestamp without time zone	No	No			
d_partyprop	ending_date	dbDate	8	No	timestamp without time zone	No	No			
d_partyprop	doc_id	dbText	12	Yes	character varying(12)	No	No			
d_property	property_id	dbText	40	Yes	character varying(40)	Yes	No	property_id;		
d_property	street	dbMemo	0	No	character varying(255) or character varying	No	No			
d_property	street_addr2	dbMemo	0	No	character varying(255) or character varying	No	No			
d_property	city	dbMemo	0	No	character varying(255) or character varying	No	No			
d_property	state_province	dbMemo	0	No	character varying(255) or character varying	No	No			
d_property	postal_code	dbText	10	No	character varying(10)	No	No			
d_property	country	dbMemo	0	No	character varying(255) or character varying	No	No			
d_property	legal_description	dbMemo	0	No	character varying(255) or character varying	No	No			
d_property	area_id	dbText	40	No	character varying(40)	No	No			
d_sampchar	study_id	dbText	25	Yes	character varying(25)	Yes	No	study_id; sampcoll_id; sampchar_type; sampchar;		
d_sampchar	sampcoll_id	dbText	20	Yes	character varying(20)	Yes	No	study_id; sampcoll_id; sampchar_type; sampchar;		
d_sampchar	sampchar_type	dbText	12	Yes	character varying(12)	Yes	Yes	study_id; sampcoll_id; sampchar_type; sampchar;	sampchar_type	e_sampcharcode
d_sampchar	sampchar	dbText	16	Yes	character varying(16)	Yes	Yes	study_id; sampcoll_id; sampchar_type; sampchar;	sampchar	e_sampcharcode
d_sampchar	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_sampcoll	study_id	dbText	25	No	character varying(25)	Yes	Yes	study_id; sampcoll_id;	study_id	d_studylocation
d_sampcoll	sampcoll_id	dbText	20	No	character varying(20)	Yes	No	study_id; sampcoll_id;		
d_sampcoll	study_loc_id	dbText	60	No	character varying(60)	No	Yes		study_loc_id	d_studylocation
d_sampcoll	sample_date	dbDate	8	No	timestamp without time zone	No	No			
d_sampcoll	sample_material	dbText	20	No	character varying(20)	No	Yes		sample_material	e_sampmaterial
d_sampcoll	composite_type	dbText	16	No	character varying(16)	No	Yes		composite_type	e_composite
d_sampcoll	composite_period	dbSingle	4	No	real	No	No			
d_sampcoll	composite_period_units	dbText	8	No	character varying(8)	No	No			
d_sampcoll	composite_count	dbInteger	2	No	smallint	No	No			
d_sampcoll	samp_loc_points	dbMemo	0	No	character varying(255) or character varying	No	No			
d_sampcoll	sampcoll_alias	dbLong	4	No	bigserial or integer	No	No			
d_sampcoll	fldqc_group	dbText	12	No	character varying(12)	No	No			
d_sampcoll	srn_id	dbText	32	No	character varying(32)	No	No			
d_sampcoll	coll_gear	dbText	12	No	character varying(12)	No	Yes		gear	e_fieldgear
d_sampcoll	coll_sop	dbText	12	No	character varying(12)	No	No			
d_sampcoll	coll_scheme	dbText	10	No	character varying(10)	No	Yes		coll_scheme	e_collscheme
d_sampcoll	taxon_code	dbText	16	No	character varying(16)	No	No			
d_sampcoll	coll_upper_depth	dbSingle	4	No	real	No	No			
d_sampcoll	coll_lower_depth	dbSingle	4	No	real	No	No			
d_sampcoll	coll_depth_units	dbText	10	No	character varying(10)	No	Yes		unit	e_unit
d_sampcoll	coll_success	dbText	10	No	character varying(10)	No	No			
d_sampcoll	water_depth	dbSingle	4	No	real	No	No			
d_sampcoll	water_depth_units	dbText	10	No	character varying(10)	No	Yes		unit	e_unit
d_sampcoll	flood_stage	dbText	10	No	character varying(10)	No	No			
d_sampcoll	water_gauge	dbSingle	4	No	real	No	No			
d_sampcoll	water_gauge_units	dbText	10	No	character varying(10)	No	No			

d_sampcoll	weather	dbText	10	No	character varying(10)	No	No			
d_sampcoll	tide_stage	dbText	10	No	character varying(10)	No	No			
d_sampcoll	tide_height	dbSingle	4	No	real	No	No			
d_sampcoll	tide_height_units	dbText	10	No	character varying(10)	No	No			
d_sampcoll	sampler	dbText	32	No	character varying(32)	No	No			
d_sampcoll	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_sampdoc	study_id	dbText	25	No	character varying(25)	Yes	Yes	study_id; sample_id; doc_id;	study_id	d_sampmain
d_sampdoc	sample_id	dbText	20	No	character varying(20)	Yes	Yes	study_id; sample_id; doc_id;	sample_id	d_sampmain
d_sampdoc	doc_id	dbText	12	No	character varying(12)	Yes	Yes	study_id; sample_id; doc_id;	doc_id	d_document
d_sampdoc	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_sampmain	study_id	dbText	25	No	character varying(25)	Yes	Yes	study_id; sample_id;	study_id	d_sampcoll
d_sampmain	sampcoll_id	dbText	20	No	character varying(20)	No	Yes		sampcoll_id	d_sampcoll
d_sampmain	sample_id	dbText	20	No	character varying(20)	Yes	No			
d_sampmain	subsamp_type	dbText	10	No	character varying(10)	No	Yes		subsamp_type	e_subsamptype
d_sampmain	sample_material	dbText	20	No	character varying(20)	No	Yes		sample_material	e_sampmaterial
d_sampmain	description	dbMemo	0	No	character varying(255) or character varying	No	No			
d_sampmain	sample_treatment	dbText	20	No	character varying(20)	No	Yes		sample_treatment	e_samptrat
d_sampmain	original_id	dbText	32	No	character varying(32)	No	No			
d_sampmain	sample_alias	dbLong	4	No	bigserial or integer	No	No			
d_sampmain	defining_doc	dbText	12	No	character varying(12)	No	Yes		doc_id	d_document
d_sampmain	fieldqc_batch	dbText	12	No	character varying(12)	No	No			
d_sampmain	upper_depth	dbSingle	4	No	real	No	No			
d_sampmain	lower_depth	dbSingle	4	No	real	No	No			
d_sampmain	depth_units	dbText	10	No	character varying(10)	No	Yes		unit	e_unit
d_sampmain	taxon	dbText	16	No	character varying(16)	No	Yes		taxon_code	e_taxon
d_sampmain	field_prep_method	dbText	10	No	character varying(10)	No	Yes		field_prep_method	e_fieldprep
d_sampmeas	study_id	dbText	25	Yes	character varying(25)	Yes	Yes	study_id; sampcoll_id; samp_measurement; field_meas_method; replicate;	study_id	d_sampcoll
d_sampmeas	sampcoll_id	dbText	20	Yes	character varying(20)	Yes	Yes	study_id; sampcoll_id; samp_measurement; field_meas_method; replicate;	sampcoll_id	d_sampcoll
d_sampmeas	samp_measurement	dbText	16	Yes	character varying(16)	Yes	Yes	study_id; sampcoll_id; samp_measurement; field_meas_method; replicate;	samp_measurement	e_sampmeascode
d_sampmeas	field_meas_method	dbText	12	No	character varying(12)	Yes	Yes	study_id; sampcoll_id; samp_measurement; field_meas_method; replicate;	field_meas_method	e_fieldmeasmethod
d_sampmeas	replicate	dbText	6	No	character varying(6)	Yes	No	study_id; sampcoll_id; samp_measurement; field_meas_method; replicate;		
d_sampmeas	meas_value	dbDouble	8	Yes	double precision	No	No			
d_sampmeas	units	dbText	10	Yes	character varying(10)	No	Yes		unit	e_unit
d_sampmeas	sig_figs	dbInteger	2	Yes	smallint	No	No			
d_sampmeas	std_dev	dbDouble	8	No	double precision	No	No			
d_sampmeas	undetected	dbBoolean	1	Yes	boolean	No	No			
d_sampmeas	estimated	dbBoolean	1	Yes	boolean	No	No			
d_sampmeas	rejected	dbBoolean	1	Yes	boolean	No	No			
d_sampmeas	greater_than	dbBoolean	1	Yes	boolean	No	No			
d_sampmeas	qa_level	dbText	10	Yes	character varying(10)	No	Yes		qa_level	e_qalevel
d_sampmeas	reportable	dbBoolean	1	Yes	boolean	No	No			
d_sampmeas	principal_doc	dbText	12	Yes	character varying(12)	No	Yes		doc_id	d_document
d_sampmeas	validator_flags	dbText	8	No	character varying(8)	No	No			
d_sampmeas	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_sampsplit	study_id	dbText	25	No	character varying(25)	Yes	Yes	study_id; sample_no;	study_id	d_sampmain
d_sampsplit	sample_no	dbText	20	No	character varying(20)	Yes	No	study_id; sample_no;		
d_sampsplit	sample_id	dbText	20	No	character varying(20)	No	Yes		sample_id	d_sampmain
d_sampsplit	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_spabund	study_id	dbText	25	No	character varying(25)	Yes	Yes	study_id; sample_id; taxon; sex; life_stage;	study_id	d_sampmain
d_spabund	sample_id	dbText	20	No	character varying(20)	Yes	Yes	study_id; sample_id; taxon; sex; life_stage;	sample_id	d_sampmain
d_spabund	taxon	dbText	16	No	character varying(16)	Yes	Yes	study_id; sample_id; taxon; sex; life_stage;	taxon_code	e_taxon
d_spabund	sex	dbText	1	No	character varying(1)	Yes	Yes	study_id; sample_id; taxon; sex; life_stage;	sex	e_sex
d_spabund	life_stage	dbText	10	No	character varying(10)	Yes	Yes	study_id; sample_id; taxon; sex; life_stage;	life_stage	e_lifestage
d_spabund	abundance	dbSingle	4	No	real	No	No			
d_spabund	abund_units	dbText	10	No	character varying(10)	No	Yes		unit	e_unit
d_spatialdata	data_set_name	dbText	36	Yes	character varying(36)	Yes	No	data_set_name;		
d_spatialdata	description	dbMemo	0	Yes	character varying(255) or character varying	No	No			
d_spatialdata	geometry_type	dbText	10	Yes	character varying(10)	No	No			
d_spatialdata	srid	dbLong	4	Yes	bigserial or integer	No	No			
d_spatialdata	coord_sys	dbText	30	Yes	character varying(30)	No	No			
d_spatialdata	data_manager	dbText	50	Yes	character varying(50)	No	No			
d_spatialdata	metadata_updated	dbDate	8	Yes	timestamp without time zone	No	No			
d_spatialdata	dataset_status	dbText	15	Yes	character varying(15)	No	Yes		workflow	e_workflow
d_spatialdata	metadata_status	dbText	15	Yes	character varying(15)	No	No			
d_spatialdata	data_origin	dbMemo	0	Yes	character varying(255) or character varying	No	No			
d_spatialdata	defining_doc	dbText	12	Yes	character varying(12)	No	No			
d_spatialdata	data_conversion	dbMemo	0	Yes	character varying(255) or character varying	No	No			
d_spatialdata	data_class	dbText	16	Yes	character varying(16)	No	No			
d_spatialdata	original_coord_sys	dbText	30	Yes	character varying(30)	No	No			
d_spatialdata	superceded_by	dbInteger	2	No	smallint	No	No			
d_spatialdata	original_name	dbText	64	No	character varying(64)	No	No			
d_spatialdata	original_format	dbText	10	No	character varying(10)	No	No			
d_spatialdata	original_metadata	dbText	50	No	character varying(50)	No	No			

d_spatialdata	original_source	dbText	64	No	character varying(64)	No	No			
d_spatialdata	data_table	dbText	64	Yes	character varying(64)	No	No			
d_spatialdata	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_study	study_id	dbText	25	No	character varying(25)	Yes	No	study_id;		
d_study	full_name	dbMemo	0	No	character varying(255) or character varying	No	No			
d_study	sponsor	dbText	80	No	character varying(80)	No	No			
d_study	contact	dbText	80	No	character varying(80)	No	No			
d_study	qa_level	dbText	10	No	character varying(10)	No	Yes		qa_level	e_qalevel
d_study	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_study	primary_doc	dbText	12	No	character varying(12)	No	Yes		doc_id	d_document
d_study	qa_doc	dbText	12	No	character varying(12)	No	Yes		doc_id	d_document
d_study	qa_comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_studylocation	study_id	dbText	25	No	character varying(25)	Yes	Yes	study_id; study_loc_id;	study_id	d_study
d_studylocation	study_loc_id	dbText	60	No	character varying(60)	Yes	No	study_id; study_loc_id;		
d_studylocation	location_id	dbText	60	No	character varying(60)	No	Yes		location_id	d_location
d_studylocation	reference_loc	dbBoolean	1	No	boolean	No	No			
d_studylocation	defining_doc	dbText	12	Yes	character varying(12)	No	Yes		doc_id	d_document
d_studylocation	loc_method	dbText	10	No	character varying(10)	No	No			
d_studylocation	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_studylocation	site	dbText	40	No	character varying(40)	No	No			
d_studylocation	description	dbMemo	0	No	character varying(255) or character varying	No	No			
d_studylocation	elevation	dbSingle	4	No	real	No	No			
d_studylocation	elev_unit	dbText	10	No	character varying(10)	No	No			
d_studyloccoord	study_id	dbText	25	No	character varying(25)	Yes	Yes	study_id; study_loc_id; y_coord; x_coord;	study_id	d_studylocation
d_studyloccoord	study_loc_id	dbText	60	No	character varying(60)	Yes	Yes	study_id; study_loc_id; y_coord; x_coord;	study_loc_id	d_studylocation
d_studyloccoord	loc_method	dbText	10	No	character varying(10)	No	No			
d_studyloccoord	coord_geom	dbText	255	No	character varying(255)	No	No			
d_studyloccoord	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
d_studyloccoord	defining_doc	dbText	12	No	character varying(12)	No	Yes		doc_id	d_document
d_studyloccoord	x_coord	dbSingle	4	No	real	Yes	No			
d_studyloccoord	y_coord	dbDouble	8	No	double precision	Yes	No			
d_studyloccoord	coord_sys	dbText	30	No	character varying(30)	No	No			
d_studyloccoord	srid	dbInteger	2	Yes	smallint	No	Yes		srid	e_spatialrefsys
d_studyloccoord	x_original	dbDouble	8	No	double precision	No	No			
d_studyloccoord	y_original	dbDouble	8	No	double precision	No	No			
d_studyloccoord	srid_original	dbLong	4	No	bigserial or integer	No	No			
d_studyloccoord	coord_qual	dbText	10	No	character varying(10)	No	Yes		coord_qual	e_coordqual
d_surrogate	lab	dbText	10	Yes	character varying(10)	Yes	Yes	lab; lab_qc_batch; labsample; method_code; surrogate; meas_basis; column_no; lab_rep;	lab	d_labqcbatch
d_surrogate	lab_qc_batch	dbText	16	Yes	character varying(16)	Yes	Yes	lab; lab_qc_batch; labsample; method_code; surrogate; meas_basis; column_no; lab_rep;	lab_qc_batch	d_labqcbatch
d_surrogate	labsample	dbText	20	Yes	character varying(20)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; meas_basis; column_no; lab_rep;		
d_surrogate	method_code	dbText	15	Yes	character varying(15)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; meas_basis; column_no; lab_rep;		
d_surrogate	surrogate	dbText	16	Yes	character varying(16)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; meas_basis; column_no; lab_rep;		
d_surrogate	meas_basis	dbText	10	Yes	character varying(10)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; meas_basis; column_no; lab_rep;		
d_surrogate	column_no	dbText	2	Yes	character varying(2)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; meas_basis; column_no; lab_rep;		
d_surrogate	lab_rep	dbText	4	Yes	character varying(4)	Yes	No	lab; lab_qc_batch; labsample; method_code; surrogate; meas_basis; column_no; lab_rep;		
d_surrogate	recovery	dbDouble	8	Yes	double precision	No	No			
d_surrogate	out_flag	dbText	1	No	character varying(1)	No	No			
e_analmethod	method_code	dbText	15	No	character varying(15)	Yes	No	method_code;		
e_analmethod	description	dbText	255	No	character varying(255)	No	No			
e_analmethod	lab_leach_method	dbText	10	No	character varying(10)	No	Yes		lab_leach_method	e_leachmethod
e_analmethod	lab_prep_method	dbText	10	No	character varying(10)	No	Yes		lab_prep_method	e_labprep
e_analmethod	lab_extraction_method	dbText	10	No	character varying(10)	No	Yes		lab_extraction_method	e_labextract
e_analmethod	lab_anal_method	dbText	10	No	character varying(10)	No	Yes		lab_anal_method	e_labmethod
e_analtype	anal_type	dbText	10	Yes	character varying(10)	Yes	No	anal_type;		
e_analtype	description	dbText	255	Yes	character varying(255)	No	No			
e_analyte	analyte	dbText	16	No	character varying(16)	Yes	No	analyte;		
e_analyte	full_name	dbText	120	No	character varying(120)	No	No			
e_analyte	chem_class	dbText	10	No	character varying(10)	No	Yes		chem_class	e_chemclass
e_analyte	aliases	dbMemo	0	No	character varying(255) or character varying	No	No			
e_analyte	cas_rn	dbText	32	No	character varying(32)	No	No			
e_areatype	area_type	dbText	10	Yes	character varying(10)	Yes	No	area_type;		
e_areatype	description	dbText	255	Yes	character varying(255)	No	No			
e_bioasmeas	bioas_meas	dbText	10	No	character varying(10)	Yes	No	bioas_meas;		
e_bioasmeas	description	dbText	255	No	character varying(255)	No	No			
e_bioasqual	bioas_qual	dbText	2	Yes	character varying(2)	Yes	No	bioas_qual;		

e_bioasqual	description	dbText	255	Yes	character varying(255)	No	No
e_bioastype	bioas_type	dbText	10	Yes	character varying(10)	Yes	bioas_type;
e_bioastype	description	dbText	255	Yes	character varying(255)	No	No
e_bioasunit	bioas_unit	dbText	10	Yes	character varying(10)	Yes	bioas_unit;
e_bioasunit	description	dbText	255	Yes	character varying(255)	No	No
e_bioasvar	bioas_var	dbText	10	Yes	character varying(10)	Yes	bioas_var;
e_bioasvar	description	dbText	255	Yes	character varying(255)	No	No
e_chemclass	chem_class	dbText	10	Yes	character varying(10)	Yes	chem_class;
e_chemclass	description	dbText	255	No	character varying(255)	No	No
e_collscheme	coll_scheme	dbText	10	Yes	character varying(10)	Yes	coll_scheme;
e_collscheme	description	dbText	255	Yes	character varying(255)	No	No
e_composite	composite_type	dbText	16	Yes	character varying(16)	Yes	composite_type;
e_composite	description	dbText	255	No	character varying(255)	No	No
e_concqual	conc_qual	dbText	1	No	character varying(1)	Yes	conc_qual;
e_concqual	description	dbText	255	No	character varying(255)	No	No
e_coordqual	coord_qual	dbText	10	No	character varying(10)	Yes	coord_qual;
e_coordqual	description	dbText	150	No	character varying(150)	No	No
e_dataclass	data_class	dbText	16	No	character varying(16)	Yes	data_class;
e_dataclass	description	dbText	255	No	character varying(255)	No	No
e_dataformat	data_format	dbText	10	No	character varying(10)	Yes	data_format;
e_dataformat	description	dbText	255	No	character varying(255)	No	No
e_dimension	dimension	dbText	5	Yes	character varying(5)	Yes	dimension;
e_dimension	description	dbText	255	No	character varying(255)	No	No
e_doccat	doc_cat	dbText	24	Yes	character varying(24)	Yes	doc_cat;
e_doccat	description	dbText	255	Yes	character varying(255)	No	No
e_docrel	doc_rel	dbText	12	Yes	character varying(12)	Yes	doc_rel;
e_docrel	description	dbText	255	No	character varying(255)	No	No
e_doctype	doc_type	dbText	50	Yes	character varying(50)	Yes	doc_type;
e_doctype	description	dbText	255	No	character varying(255)	No	No
e_eventtype	event_type	dbText	10	No	character varying(10)	Yes	event_type;
e_eventtype	description	dbText	255	No	character varying(255)	No	No
e_fieldgear	gear	dbText	12	Yes	character varying(12)	Yes	gear;
e_fieldgear	description	dbText	255	Yes	character varying(255)	No	No
e_fieldmeasmethod	field_meas_method	dbText	12	No	character varying(12)	Yes	field_meas_method;
e_fieldmeasmethod	description	dbText	255	No	character varying(255)	No	No
e_fieldprep	field_prep_method	dbText	10	Yes	character varying(10)	Yes	field_prep_method;
e_fieldprep	description	dbText	255	Yes	character varying(255)	No	No
e_geometrytype	geometry_type	dbText	10	No	character varying(10)	Yes	geometry_type;
e_geometrytype	description	dbText	255	No	character varying(255)	No	No
e_guidelinetype	guideline_type	dbText	10	No	character varying(10)	Yes	guideline_type;
e_guidelinetype	description	dbText	255	No	character varying(255)	No	No
e_keyword	keyword	dbText	25	Yes	character varying(25)	Yes	keyword;
e_keyword	description	dbText	255	No	character varying(255)	No	No
e_lab	lab	dbText	10	Yes	character varying(10)	Yes	lab;
e_lab	lab_name	dbText	255	Yes	character varying(255)	No	No
e_lab	street	dbText	255	No	character varying(255)	No	No
e_lab	city	dbText	255	No	character varying(255)	No	No
e_lab	state	dbText	255	No	character varying(255)	No	No
e_lab	postal_code	dbText	10	No	character varying(10)	No	No
e_lab	contact	dbText	255	No	character varying(255)	No	No
e_lab	province	dbText	20	No	character varying(20)	No	No
e_lab	country	dbText	12	No	character varying(12)	No	No
e_labextract	lab_extraction_method	dbText	10	Yes	character varying(10)	Yes	lab_extraction_method;
e_labextract	description	dbText	255	Yes	character varying(255)	No	No
e_labinstrument	instrument_type	dbText	10	Yes	character varying(10)	Yes	instrument_type;
e_labinstrument	description	dbText	255	No	character varying(255)	No	No
e_labmethod	lab_anal_method	dbText	10	Yes	character varying(10)	Yes	lab_anal_method;
e_labmethod	description	dbText	255	Yes	character varying(255)	No	No
e_labprep	lab_prep_method	dbText	10	Yes	character varying(10)	Yes	lab_prep_method;
e_labprep	description	dbText	255	Yes	character varying(255)	No	No
e_lcstype	lcs_type	dbText	1	Yes	character varying(1)	Yes	lcs_type;
e_lcstype	description	dbText	255	Yes	character varying(255)	No	No
e_leachmethod	lab_leach_method	dbText	10	Yes	character varying(10)	Yes	lab_leach_method;
e_leachmethod	description	dbText	255	Yes	character varying(255)	No	No
e_lesionsev	lesion_severity	dbText	15	Yes	character varying(15)	Yes	lesion_severity;
e_lesionsev	description	dbText	255	Yes	character varying(255)	No	No
e_lesiontype	lesion_type	dbText	6	Yes	character varying(6)	Yes	lesion_type;
e_lesiontype	description	dbText	150	Yes	character varying(150)	No	No
e_lesiontype	carcinoma	dbBoolean	1	Yes	boolean	No	No
e_lifestage	life_stage	dbText	10	Yes	character varying(10)	Yes	life_stage;
e_lifestage	description	dbText	255	Yes	character varying(255)	No	No
e_locmethod	loc_method	dbText	10	Yes	character varying(10)	Yes	loc_method;
e_locmethod	description	dbText	255	Yes	character varying(255)	No	No

e_locitype	loc_type	dbText	15	Yes	character varying(15)	Yes	No	loc_type;		
e_locitype	description	dbText	255	Yes	character varying(255)	No	No			
e_material	material	dbText	20	No	character varying(20)	Yes	No	material;		
e_material	description	dbText	255	No	character varying(255)	No	No			
e_matrix	matrix	dbText	1	Yes	character varying(1)	Yes	No	matrix;		
e_matrix	description	dbText	255	Yes	character varying(255)	No	No			
e_measbasis	meas_basis	dbText	10	Yes	character varying(10)	Yes	No	meas_basis;		
e_measbasis	description	dbText	255	Yes	character varying(255)	No	No			
e_outflag	out_flag	dbText	1	Yes	character varying(1)	Yes	No	out_flag;		
e_outflag	description	dbText	255	Yes	character varying(255)	No	No			
e_partyproprel	property_rel	dbText	10	No	character varying(10)	Yes	No	property_rel;		
e_partyproprel	description	dbText	255	No	character varying(255)	No	No			
e_partyrole	party_role	dbText	10	No	character varying(10)	Yes	No	party_role;		
e_partyrole	description	dbText	255	No	character varying(255)	No	No			
e_partytype	party_type	dbText	12	No	character varying(12)	Yes	No	party_type;		
e_partytype	description	dbText	255	No	character varying(255)	No	No			
e_qalevel	qa_level	dbText	10	Yes	character varying(10)	Yes	No	qa_level;		
e_qalevel	description	dbText	255	Yes	character varying(255)	No	No			
e_qctype	qc_type	dbText	12	Yes	character varying(12)	Yes	No	qc_type;		
e_qctype	description	dbText	255	Yes	character varying(255)	No	No			
e_resource	resource	dbText	10	No	character varying(10)	Yes	No	resource;		
e_resource	description	dbText	255	No	character varying(255)	No	No			
e_riverbank	river_bank	dbText	8	Yes	character varying(8)	Yes	No	river_bank;		
e_riverbank	description	dbText	255	Yes	character varying(255)	No	No			
e_sampcharcode	sampchar_type	dbText	12	Yes	character varying(12)	Yes	Yes	sampchar_type; sampchar;	sampchar_type	e_sampcharcodetype
e_sampcharcode	sampchar	dbText	16	Yes	character varying(16)	Yes	No	sampchar_type; sampchar;		
e_sampcharcode	description	dbMemo	0	Yes	character varying(255) or character varying	No	No			
e_sampcharcodetype	sampchar_type	dbText	12	No	character varying(12)	Yes	No	sampchar_type;		
e_sampcharcodetype	description	dbText	255	No	character varying(255)	No	No			
e_sampmaterial	sample_material	dbText	20	Yes	character varying(20)	Yes	No	sample_material;		
e_sampmaterial	description	dbText	255	No	character varying(255)	No	No			
e_sampmaterial	material	dbText	20	No	character varying(20)	No	Yes		material	e_material
e_sampmaterial	matrix	dbText	1	Yes	character varying(1)	No	Yes		matrix	e_matrix
e_sampmeascode	samp_measurement	dbText	16	No	character varying(16)	Yes	No	samp_measurement;		
e_sampmeascode	description	dbText	255	No	character varying(255)	No	No			
e_sampmtreat	sample_treatment	dbText	20	No	character varying(20)	Yes	No	sample_treatment;		
e_sampmtreat	description	dbText	255	No	character varying(255)	No	No			
e_sex	sex	dbText	1	Yes	character varying(1)	Yes	No	sex;		
e_sex	description	dbText	255	Yes	character varying(255)	No	No			
e_spatialrefsys	srid	dbInteger	2	No	smallint	Yes	No	srid;		
e_spatialrefsys	description	dbText	200	No	character varying(200)	No	No			
e_spatialrefsys	srtxt	dbMemo	0	No	character varying(255) or character varying	No	No			
e_subsamptype	subsamp_type	dbText	10	Yes	character varying(10)	Yes	No	subsamp_type;		
e_subsamptype	description	dbText	255	No	character varying(255)	No	No			
e_taxon	taxon_code	dbText	16	Yes	character varying(16)	Yes	No	taxon_code;		
e_taxon	kingdom	dbText	255	No	character varying(255)	No	No			
e_taxon	phylum	dbText	255	No	character varying(255)	No	No			
e_taxon	tax_class	dbText	255	No	character varying(255)	No	No			
e_taxon	subclass	dbText	255	No	character varying(255)	No	No			
e_taxon	superorder	dbText	255	No	character varying(255)	No	No			
e_taxon	tax_order	dbText	255	No	character varying(255)	No	No			
e_taxon	suborder	dbText	255	No	character varying(255)	No	No			
e_taxon	superfamily	dbText	255	No	character varying(255)	No	No			
e_taxon	family	dbText	255	No	character varying(255)	No	No			
e_taxon	subfamily	dbText	255	No	character varying(255)	No	No			
e_taxon	genus	dbText	255	No	character varying(255)	No	No			
e_taxon	species	dbText	255	No	character varying(255)	No	No			
e_taxon	subspecies	dbText	255	No	character varying(255)	No	No			
e_taxon	common_name	dbText	255	No	character varying(255)	No	No			
e_unit	unit	dbText	10	Yes	character varying(10)	Yes	No	unit;		
e_unit	description	dbText	255	No	character varying(255)	No	No			
e_unit	dimension	dbText	5	Yes	character varying(5)	No	Yes		dimension	e_dimension
e_unit	as_html	dbText	24	No	character varying(24)	No	No			
e_unit	addend1	dbSingle	4	Yes	real	No	No			
e_unit	factor	dbSingle	4	Yes	real	No	No			
e_unit	addend2	dbSingle	4	Yes	real	No	No			
e_unit	display	dbText	10	Yes	character varying(10)	No	No			
e_workflow	workflow	dbText	20	No	character varying(20)	Yes	No	workflow;		
i_chemlistdef	analyte_list	dbText	16	Yes	character varying(16)	Yes	No	analyte_list;		
i_chemlistdef	description	dbMemo	0	Yes	character varying(255) or character varying	No	No			
i_chemlistlist	analyte_list	dbText	16	Yes	character varying(16)	Yes	Yes	analyte_list; analyte;	analyte_list	i_chemlistdef
i_chemlistlist	analyte	dbText	16	Yes	character varying(16)	Yes	Yes	analyte_list; analyte;	analyte	e_analyte
i_chemlistlist	sort_order	dbLong	4	Yes	bigserial or integer	No	No			

i_chemsetdef	analyte_set	dbText	16	Yes	character varying(16)	Yes	No	analyte_set;		
i_chemsetdef	description	dbMemo	0	Yes	character varying(255) or character varying	No	No			
i_chemsetlist	analyte_set	dbText	16	Yes	character varying(16)	Yes	Yes	analyte_set; analyte_list;	analyte_set	i_chemsetdef
i_chemsetlist	analyte_list	dbText	16	Yes	character varying(16)	Yes	Yes	analyte_set; analyte_list;	analyte_list	i_chemlistdef
i_chemsetlist	sort_order	dbLong	4	Yes	bigserial or integer	No	No			
i_chemsumdef	sum_name	dbText	16	Yes	character varying(16)	Yes	No	sum_name;		
i_chemsumdef	description	dbMemo	0	Yes	character varying(255) or character varying	No	No			
i_chemsumdef	analyte	dbText	16	Yes	character varying(16)	No	No			
i_chemsumdef	sum_method	dbText	16	Yes	character varying(16)	No	No			
i_chemsumdef	defining_doc	dbText	12	No	character varying(12)	No	No			
i_chemsumdef	comments	dbMemo	0	No	character varying(255) or character varying	No	No			
i_chemsumlist	sum_name	dbText	16	Yes	character varying(16)	Yes	Yes	sum_name; analyte;	sum_name	i_chemsumdef
i_chemsumlist	analyte	dbText	16	Yes	character varying(16)	Yes	No	sum_name; analyte;		
i_chemsumlist	weight	dbDouble	8	Yes	double precision	No	No			
i_chemsumlist	required	dbBoolean	1	Yes	boolean	No	No			
i_loclistdef	location_list	dbText	16	Yes	character varying(16)	Yes	No	location_list;		
i_loclistdef	description	dbMemo	0	Yes	character varying(255) or character varying	No	No			
i_loclistlist	location_list	dbText	16	Yes	character varying(16)	Yes	Yes	location_list; location_id;	location_list	i_loclistdef
i_loclistlist	location_id	dbText	50	No	character varying(50)	Yes	No	location_list; location_id;		
i_loclistlist	sort_order	dbDouble	8	No	double precision	No	No			
i_samplistdef	sample_list	dbText	16	Yes	character varying(16)	Yes	No	sample_list;		
i_samplistdef	description	dbMemo	0	Yes	character varying(255) or character varying	No	No			
i_samplistlist	sample_list	dbText	16	Yes	character varying(16)	Yes	Yes	sample_list; study_id; sample_id;	sample_list	i_samplistdef
i_samplistlist	study_id	dbText	25	Yes	character varying(25)	Yes	Yes	sample_list; study_id; sample_id;	study_id	d_sampmain
i_samplistlist	sample_id	dbText	16	Yes	character varying(16)	Yes	Yes	sample_list; study_id; sample_id;	sample_id	d_sampmain
i_samplistlist	sort_order	dbLong	4	Yes	bigserial or integer	No	No			

tbl_relation	tbl_primary	tbl_foreign	flds_primary	flds_foreign
{1079F7FD-DE44-4D0C-B792-1ABA80E1F5AD}	d_location	d_studylocation	location_id;	location_id;
{12D85CEC-3A9E-4B67-8126-AB3A02C8EB2F}	d_study	d_studylocation	study_id;	study_id;
{2F2ED6A7-B6AD-4C2A-B682-E83EC192190D}	d_sampmain	d_bioasdat	study_id; sample_id;	study_id; sample_id;
{339E3290-F14A-4FED-80C0-3BD9794F2709}	d_sampmain	d_sampsplit	study_id; sample_id;	study_id; sample_id;
{3A6E3BE7-3747-4A74-89D6-320AD88D86EA}	d_document	d_area	doc_id;	defining_doc;
{3EDB9A42-CD14-4741-A7B4-770966520F43}	d_bioasdat	d_bioasdat	lab; bioas_batch;	lab; bioas_batch;
{4AA74ED4-A445-4D51-A6F7-14CBDF9AAD57}	d_document	d_dockwd	doc_id;	doc_id;
{4F7B6A86-98B2-4544-A9F1-FC92963EDD2C}	d_sampsplit	d_labsample	study_id; sample_no;	study_id; sample_no;
{556BB6CD-AFDB-4153-A298-923BC1244DC7}	d_labsample	d_labresult	lab; labsample;	lab; labsample;
{6238003D-1B7C-4C5C-B178-706D7411D6F5}	d_document	d_studyloccoord	doc_id;	defining_doc;
{64AC85C0-AD87-4FD9-87F8-335430610EC4}	d_document	d_studylocation	doc_id;	defining_doc;
{6E206204-7A18-485C-899E-33188134F6E1}	d_document	d_sampmain	doc_id;	defining_doc;
{93E9C4DB-8BF3-4EEC-8995-45EF3999926D}	d_document	d_location	doc_id;	defining_doc;
{97E83077-5A23-4E5C-A039-37FCF4A7472A}	d_document	d_labresult	doc_id;	principal_doc;
{BDFDCCCB-91DE-4036-9C45-283303E4B7EC}	d_labpkg	d_labresult	lab; lab_pkg; anal_type;	lab; lab_pkg; anal_type;
{DC6BC9F5-E2A2-420E-BFE4-582639C23289}	d_studylocation	d_sampcoll	study_id; study_loc_id;	study_id; study_loc_id;
{E7CE789B-A3E6-48C2-9C62-00511398BB3D}	d_studylocation	d_studyloccoord	study_id; study_loc_id;	study_id; study_loc_id;
d_bioaccumbatd_bioaccumtest	d_bioaccumbat	d_bioaccumtest	lab; bioaccum_batch;	lab; bioaccum_batch;
d_bioaccumtestd_bioaccumsamp	d_bioaccumtest	d_bioaccumsamp	lab; bioaccum_batch; study_id; sample_id;	lab; bioaccum_batch; study_id; sample_id;
d_bioasbatd_bioasctl	d_bioasbat	d_bioasctl	lab; bioas_batch;	lab; bioas_batch;
d_criteriade fsd_criteria	d_criteriade fs	d_criteria	critcode;	critcode;
d_documentd_bioaccumbat	d_document	d_bioaccumbat	doc_id;	sop;
d_documentd_sampdoc	d_document	d_sampdoc	doc_id;	doc_id;
d_documentd_sampmeas	d_document	d_sampmeas	doc_id;	principal_doc;
d_documentd_study	d_document	d_study	doc_id;	primary_doc;
d_documentd_study1	d_document	d_study	doc_id;	qa_doc;
d_fldqcsampd_fldqcsplit	d_fldqcsamp	d_fldqcsplit	study_id; qcsample_id;	study_id; qcsample_id;
d_labqcbatchd_matrixspike	d_labqcbatch	d_matrixspike	lab; lab_qc_batch;	lab; lab_qc_batch;
d_labqcbatchd_mblksurr	d_labqcbatch	d_mblksurr	lab; lab_qc_batch;	lab; lab_qc_batch;
d_labqcbatchd_methodblank	d_labqcbatch	d_methodblank	lab; lab_qc_batch;	lab; lab_qc_batch;
d_labqcbatchd_surrogate	d_labqcbatch	d_surrogate	lab; lab_qc_batch;	lab; lab_qc_batch;
d_labsampled_methodblank	d_labsample	d_methodblank	lab; labsample;	lab; labsample;
d_sampcoll_d_sampmain	d_sampcoll	d_sampmain	study_id; sampcoll_id;	study_id; sampcoll_id;
d_sampcoll_d_sampmeas	d_sampcoll	d_sampmeas	study_id; sampcoll_id;	study_id; sampcoll_id;
d_sampmain_d_bioaccumtest	d_sampmain	d_bioaccumtest	study_id; sample_id;	study_id; sample_id;
d_sampmain_d_histopath	d_sampmain	d_histopath	study_id; sample_id;	study_id; sample_id;
d_sampmain_d_sampdoc	d_sampmain	d_sampdoc	study_id; sample_id;	study_id; sample_id;
d_sampmain_d_spabund	d_sampmain	d_spabund	study_id; sample_id;	study_id; sample_id;
d_sampmain_i_samplistlist	d_sampmain	i_samplistlist	study_id; sample_id;	study_id; sample_id;
d_studyd_fldqcsamp	d_study	d_fldqcsamp	study_id;	study_id;
e_analmethodd_labresult	e_analmethod	d_labresult	method_code;	method_code;
e_analyted_criteria	e_analyte	d_criteria	analyte;	analyte;
e_analyted_labresult	e_analyte	d_labresult	analyte;	analyte;
e_analytei_chemlistlist	e_analyte	i_chemlistlist	analyte;	analyte;
e_areatype_d_area	e_areatype	d_area	area_type;	area_type;

e_bioasmeasd_bioasctl	e_bioasmeas	d_bioasctl	bioas_meas;	bioas_meas;
e_bioasmeasd_bioasdat	e_bioasmeas	d_bioasdat	bioas_meas;	bioas_meas;
e_bioasquald_bioasctl	e_bioasqual	d_bioasctl	bioas_qual;	bioas_qual;
e_bioasquald_bioasdat	e_bioasqual	d_bioasdat	bioas_qual;	bioas_qual;
e_bioastyped_bioasbat	e_bioastype	d_bioasbat	bioas_type;	bioas_type;
e_bioasunitd_bioasctl	e_bioasunit	d_bioasctl	bioas_unit;	bioas_unit;
e_bioasunitd_bioasdat	e_bioasunit	d_bioasdat	bioas_unit;	bioas_unit;
e_bioasvard_bioasctl	e_bioasvar	d_bioasctl	bioas_var;	bioas_var;
e_bioasvard_bioasdat	e_bioasvar	d_bioasdat	bioas_var;	bioas_var;
e_chemclasse_analyte	e_chemclass	e_analyte	chem_class;	chem_class;
e_collschemed_sampcoll	e_collscheme	d_sampcoll	coll_scheme;	coll_scheme;
e_composited_sampcoll	e_composite	d_sampcoll	composite_type;	composite_type;
e_coordquald_location	e_coordqual	d_location	coord_qual;	coord_qual;
e_coordquald_studyloccoord	e_coordqual	d_studyloccoord	coord_qual;	coord_qual;
e_dimensione_unit	e_dimension	e_unit	dimension;	dimension;
e_doccatd_document	e_doccat	d_document	doc_cat;	doc_cat;
e_doctyped_document	e_doctype	d_document	doc_type;	doc_type;
e_fieldgeard_sampcoll	e_fieldgear	d_sampcoll	gear;	coll_gear;
e_fieldmeasmethodd_sampmeas	e_fieldmeasmethod	d_sampmeas	field_meas_method;	field_meas_method;
e_fieldprepd_sampmain	e_fieldprep	d_sampmain	field_prep_method;	field_prep_method;
e_keywordd_dockwd	e_keyword	d_dockwd	keyword;	keyword;
e_labd_bioaccumbat	e_lab	d_bioaccumbat	lab;	lab;
e_labd_bioasbat	e_lab	d_bioasbat	lab;	lab;
e_labd_bioasdat	e_lab	d_bioasdat	lab;	lab;
e_labd_labpkg	e_lab	d_labpkg	lab;	lab;
e_labd_labqcsamp	e_lab	d_labqcsamp	lab;	lab;
e_labd_labsample	e_lab	d_labsample	lab;	lab;
e_labextracte_analmethod	e_labextract	e_analmethod	lab_extraction_method;	lab_extraction_method;
e_labmethode_analmethod	e_labmethod	e_analmethod	lab_anal_method;	lab_anal_method;
e_labprepe_analmethod	e_labprep	e_analmethod	lab_prep_method;	lab_prep_method;
e_leachmethode_analmethod	e_leachmethod	e_analmethod	lab_leach_method;	lab_leach_method;
e_lesionsevd_histopath	e_lesionsev	d_histopath	lesion_severity;	lesion_severity;
e_lesiontyped_histopath	e_lesiontype	d_histopath	lesion_type;	lesion_type;
e_lifestaged_spabund	e_lifestage	d_spabund	life_stage;	life_stage;
e_materiald_criteria	e_material	d_criteria	material;	material;
e_materiald_criteriadefts	e_material	d_criteriadefts	material;	material;
e_materiale_sampmaterial	e_material	e_sampmaterial	material;	material;
e_matrixe_sampmaterial	e_matrix	e_sampmaterial	matrix;	matrix;
e_measbasisd_criteria	e_measbasis	d_criteria	meas_basis;	meas_basis;
e_measbasisd_labresult	e_measbasis	d_labresult	meas_basis;	meas_basis;
e_partytyped_party	e_partytype	d_party	party_type;	party_type;
e_qaleveld_bioasbat	e_qalevel	d_bioasbat	qa_level;	qa_level;
e_qaleveld_labpkg	e_qalevel	d_labpkg	qa_level;	qalevel_target;
e_qaleveld_labpkg1	e_qalevel	d_labpkg	qa_level;	qalevel_applied;
e_qaleveld_labresult	e_qalevel	d_labresult	qa_level;	qa_level;
e_qaleveld_sampmeas	e_qalevel	d_sampmeas	qa_level;	qa_level;

e_qaleveld_study	e_qalevel	d_study	qa_level;	qa_level;
e_qctyped_fldqcsamp	e_qctype	d_fldqcsamp	qc_type;	qc_type;
e_qctyped_labqcsamp	e_qctype	d_labqcsamp	qc_type;	qc_type;
e_riverbankd_location	e_riverbank	d_location	river_bank;	river_bank;
e_sampcharcoded_sampchar	e_sampcharcode	d_sampchar	sampchar_type; sampchar;	sampchar_type; sampchar;
e_sampcharcodetypee_sampcharcode	e_sampcharcodetype	e_sampcharcode	sampchar_type;	sampchar_type;
e_sampmateriald_histopath	e_sampmaterial	d_histopath	sample_material;	organ;
e_sampmateriald_labresult	e_sampmaterial	d_labresult	sample_material;	material_analyzed;
e_sampmateriald_sampcoll	e_sampmaterial	d_sampcoll	sample_material;	sample_material;
e_sampmateriald_sampmain	e_sampmaterial	d_sampmain	sample_material;	sample_material;
e_sampmeascoded_sampmeas	e_sampmeascode	d_sampmeas	samp_measurement;	samp_measurement;
e_samptreatd_sampmain	e_samptreat	d_sampmain	sample_treatment;	sample_treatment;
e_sex_d_spabund	e_sex	d_spabund	sex;	sex;
e_spatialrefsysd_location	e_spatialrefsys	d_location	srid;	srid;
e_spatialrefsysd_studyloccoord	e_spatialrefsys	d_studyloccoord	srid;	srid;
e_subsamptyped_sampmain	e_subsamptype	d_sampmain	subsamp_type;	subsamp_type;
e_taxond_bioaccumbat	e_taxon	d_bioaccumbat	taxon_code;	taxon;
e_taxond_bioasbat	e_taxon	d_bioasbat	taxon_code;	taxon;
e_taxond_sampmain	e_taxon	d_sampmain	taxon_code;	taxon;
e_taxond_spabund	e_taxon	d_spabund	taxon_code;	taxon;
e_unitd_criteria	e_unit	d_criteria	unit;	unit;
e_unitd_labresult	e_unit	d_labresult	unit;	units;
e_unitd_sampcoll	e_unit	d_sampcoll	unit;	coll_depth_units;
e_unitd_sampcoll1	e_unit	d_sampcoll	unit;	water_depth_units;
e_unitd_sampmain	e_unit	d_sampmain	unit;	depth_units;
e_unitd_sampmeas	e_unit	d_sampmeas	unit;	units;
e_unitd_spabund	e_unit	d_spabund	unit;	abund_units;
e_workflowd_spatialdata	e_workflow	d_spatialdata	workflow;	dataset_status;
fk_chemlist	i_chemlistdef	i_chemsetlist	analyte_list;	analyte_list;
fk_chemset	i_chemsetdef	i_chemsetlist	analyte_set;	analyte_set;
i_chemlistdefi_chemlistlist	i_chemlistdef	i_chemlistlist	analyte_list;	analyte_list;
i_chemsumdefi_chemsumlist	i_chemsumdef	i_chemsumlist	sum_name;	sum_name;
i_loclistdefi_loclistlist	i_loclistdef	i_loclistlist	location_list;	location_list;
i_samplistdefi_samplistlist	i_samplistdef	i_samplistlist	sample_list;	sample_list;

method_code	description	lab_prep_method	lab_leach_method	lab_extraction_method	lab_anal_method
SM2540D	Total Suspended Solids (TSS) Dried at 103 -105 deg C				SM2540D

lab	lab_pkg	anal_type	labsample	material_analyzed	method_code	date_extracted	date_analyzed	mass_gm	vol_ml
CAS_K	K1106669	Convent	K1106669-001	Water	SM2540D		7/22/2011		
CAS_K	K1106669	Convent	K1106669-002	Water	SM2540D		7/22/2011		
CAS_K	K1106669	Convent	K1106669-003	Water	SM2540D		7/22/2011		
CAS_K	K1106669	Convent	K1106669-004	Water	SM2540D		7/22/2011		
CAS_K	K1106669	Convent	K1106669-MB1	Water	SM2540D		7/22/2011		
CAS_K	K1106669	Convent	K1106669-MB2	Water	SM2540D		7/22/2011		
CAS_K	K1106669	Convent	K1106669-LCS1	Water	SM2540D		7/22/2011		
CAS_K	K1106669	Convent	K1106669-LCS2	Water	SM2540D		7/22/2011		
CAS_K	K1106669	Convent	K1106669-001DUP	Water	SM2540D		7/22/2011		

lab	lab_cal_batch	instrument_type	instrument_id	initial_cal_date
CAS_K	254500	BALANCE	K-Balance-31	7/22/2011

lab	lab_pkg	anal_type	anal_begun	anal_completed	analyst	comments
CAS_K	K1106669	Convent	7/22/2011	7/22/2011		

lab	lab_qc_batch	prep_date	extraction_date
CAS_K	254500		

lab	labqc_samp	qc_type	comments
CAS_K	K1106669-MB1	MethodBlank	
CAS_K	K1106669-MB2	MethodBlank	
CAS_K	K1106669-LCS1	LCS	
CAS_K	K1106669-LCS2	LCS	

lab	lab_pkg	anal_type	labsample	material_analyzed	method_code	analyte	meas_basis	lab_rep	meas_value	units	std_dev	detected	detection_limit	quantification_limit	reporting_limit	maximum_limit	lab_flags	comments	lab_qc_batch	lab_cal_batch
CAS_K	K1106669	Convent	K1106669-001	Water	SM2540D	TSS	Unfilt	1	6.5	mg/L		Y	5	5	5				254500	254500
CAS_K	K1106669	Convent	K1106669-002	Water	SM2540D	TSS	Unfilt	1	16	mg/L		Y	5	5	5				254500	254500
CAS_K	K1106669	Convent	K1106669-003	Water	SM2540D	TSS	Unfilt	1	14.5	mg/L		Y	5	5	5				254500	254500
CAS_K	K1106669	Convent	K1106669-004	Water	SM2540D	TSS	Unfilt	1	18	mg/L		Y	5	5	5				254500	254500
CAS_K	K1106669	Convent	K1106669-001DUP	Water	SM2540D	TSS	Unfilt	2	10	mg/L		Y	5	5	5		*		254500	254500

lab	labsample	study_id	sample_no	labqc_samp	receipt_date	coc_id
CAS_K	K1106669-001	090557-01.02	SJUSL001-AS041-N	NA	7/22/2011	
CAS_K	K1106669-002	090557-01.02	SJUSL001-AS042-N	NA	7/22/2011	
CAS_K	K1106669-003	090557-01.02	SJUSL001-AS043-N	NA	7/22/2011	
CAS_K	K1106669-004	090557-01.02	SJUSL001-AS043-D	NA	7/22/2011	
CAS_K	K1106669-MB1			K1106669-MB1	NA	NA
CAS_K	K1106669-MB2			K1106669-MB2	NA	NA
CAS_K	K1106669-LCS1			K1106669-LCS1	NA	NA
CAS_K	K1106669-LCS2			K1106669-LCS2	NA	NA
CAS_K	K1106669-001DUP	090557-01.02	SJUSL001-AS041-N	NA	7/22/2011	

lab	lab_qc_batch	lcs_id	analyte	meas_basis	lcs_type	true_lcs_conc	meas_lcs_conc	lcs_lowlimit	lcs_highlimit	units	conc_qual
CAS_K	254500	K1106669-LCS1	TSS	Unfilt	L	240	240	80	115	mg/L	
CAS_K	254500	K1106669-LCS2	TSS	Unfilt	L	240	242	80	115	mg/L	

lab lab_qc_batch labsample method_code analyte meas_basis spike_no samp_conc initial_qual spike_added spiked_conc final_qual lab_flags units

lab	lab_qc_batch	labsample	method_code	analyte	lab_rep	concentration	retention_time	units	lab_flags
CAS_K	254500	K1106669-MB1	SM2540D	TSS	1	5		mg/L	U
CAS_K	254500	K1106669-MB2	SM2540D	TSS	1	5		mg/L	U

lab lab_qc_batch labsample method_code surrogate meas_basis column_no lab_rep recovery out_flag

"*Rite in the Rain*"[®]
ALL-WEATHER WRITING PAPER



FIELD

All-Weather Notebook
No. 351

090557-01.01
San Jacinto Waste Pits
Residential Soil Sampling

4 5/8" x 7" - 48 Numbered Pages

8-11-2011

3

0800 Mobilize to Spring Hill Suite Baytown
to review sampling plan and
health and safety plan. David
Keith (Anchor QEA), Sam Werner
(Anchor QEA), Brett Suttar
(Benchmark Ecological Services, Inc.)
Present for meeting.

0840 Gary Miller (USEPA) joins
meeting, further discussion of
Sampling Plan, Health & Safety
Plan.

0900 Mobilize to Residential Sampling
locations.

0920 Arrive at 1002 Lakeshore Highlands
Ilene Hicks, Pic 1746-1747, 1755

- First sample (waypoint 001)
- 2nd sample Pic # 1748-1749, 1758
Waypoint 002
- 3rd sample Pic # 1750-1751, 1758
Waypoint 003
- 4th sample Pic # 1752-1753, 1758
~~Waypoint~~ 004

Station # SJRS001.

Composite Sample Pic # 1754

1015 G. Miller, D. Keith and Dauphy
arrive at 1002 Shoreline

1025 G. Miller, D. Keith and Dauphy
depart 1002 Shoreline ^{Highland}

1028 Mobilize to 1006 Shoreline
Station # SJRS002 ~~WP #~~

- 1st Sample: Pic # 1759, 1760, 1768
WP # 005
- 2nd Sample: Pic # 1761, 1762, 1770
WP # 006
- 3rd Sample: Pic # 1763, 1764, 1771
WP # 007
- 4th Sample: Pic # 1765, 1766, 1769
WP # 008

Composite Sample SL 002 Pic # 1767

1107 Mobilize to 1010 Shoreline Highland
Station # SJRS003

- 1st Sample: Pic # 1772, 1773, 1789
WP # 009
- 2nd Sample: Pic # 1774, 1775, 1790
WP # 010
- 3rd Sample: Pic # 1776, 1777, 1791
WP # 011
- 4th Sample: Pic # 1778, 1779, 1792
WP # 012

Composite Sample SL 003 Pic # 1787

11:40

Mobilize to 1012 Shoreline *Highland*

Station # SJRS004

1st Sample: Pic # ~~1870~~, 1720, ~~1893~~
WP 013

2nd Sample: Pic # ~~1880~~, 1982, ~~1896~~
WP 014

3rd Sample: Pic # ~~1983~~, ~~1984~~, ~~1995~~
WP 015

4th Sample: Pic # ~~1985~~, ~~1986~~, ~~1996~~
WP 016

Composite Sample Pic 1880

12:19

Mobilize to 1312 South Main *Highland*

Station # SJRS005

1st Sample: Pic # 1897, 1898
WP 017

2nd Sample: Pic # 1899, 1900
WP 018

3rd Sample: Pic # 1901, 1902
WP 019

4th Sample: Pic # 1903, 1904
WP 020

Composite Sample Pic 1805

12:38

Mobilize to lunch

Channelview

1400 Mobilize to 17610 River Road

Station # SJRS006

1st Sample: Pic # 1810, 1811, 1818

WP 021

2nd Sample: Pic # 1812, 1813, 1819

WP 022

3rd Sample: Pic # 1814, 1820

WP 023

4th Sample: Pic # 1815, 1816, 1821

WP 024

Composite Pic # 1817

1435 Mobilize to 17626 River Road Channelview

Station # SJRS007

1st Sample: Pic # 1822, 1830

WP 025

2nd Sample: Pic # 1823, 1824, 1831

WP 026

3rd Sample: Pic # 1825, 1826, 1832

WP 027

4th Sample: Pic # 1827, 1828, 1833

WP 028

Composite sample pic # 1829

145) Mobilize to 17714 Meadow Brook (Channe)

Station # SJRS008

1st Sample: Pic 1833, 1834, 1842
WP 029

2nd Sample: Pic 1835, 1836, 1843
WP 030

3rd Sample: Pic 1837, 1838, 1844
WP 031

4th Sample: Pic 1839, 1846, 1845
WP 032 ~~1843, 1844~~

Composite Sample Pic 1841

~~_____~~
~~_____~~

JennyHarpster@comcast.net

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1510 Mobilize to 17717 Meadow Brook Channel view
 Station # SJRS009
 1st Sample: Pic # 1844, 1845, 1853
 WP 033
 2nd Sample: Pic # 1846, 1847, 1854
 WP 034
 3rd Sample: Pic # 1848, 1849, 1855
 WP 035
 4th Sample: Pic # 1850, 1851, 1856
 WP 036

Composite Sample Pic # 1852

1585 Mobilize to 17333 RMC Road Channel view
 Station # SJRS010
 1st Sample: Pic # 1857, 1862, 1866
 WP 037
 2nd Sample: Pic # 1859, 1860, 1865
 WP 038
 3rd Sample: Pic # 1861, 1862, 1865
 WP 039
 4th Sample: Pic # 1863, 1864, 1867
 WP 040
 Composite Sample Pic # 1865

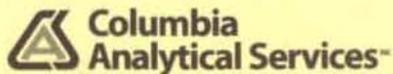
appears parse
 Copper + Corneal Remains in sample
 Flakes

14

1630

Samples Released to
B. Sutter, Chain of Custody
Forms completed

CHAIN OF CUSTODY/LABORATORY ANALYSIS REPORT FORM



19408 Park Row, Ste 320 • Houston, TX 77084 • (713) 266-1599 • FAX (713) 266-0130

DATE 8-11-11 PAGE 1 OF 2

PROJECT NAME <u>SJRP 2500ft at Soil Sampling</u> PROJECT # <u>090557-0101</u> COMPANY/ADDRESS <u>Anchor USA, LLC</u> <u>614 Magnolia Ave</u> <u>Olney Springs, MO 64547</u> PHONE <u>773-278-1183</u> REPORT TO: <u>David Keith</u>	NUMBER OF CONTAINERS	ANALYSIS REQUEST 8290 1613B 1613 TCDD only 1668 WHO 1668 Full List TOC (USEPA 7060A) USEPA 7060A
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SAMPLE I.D.	DATE	TIME	SAMPLE MATRIX	NUMBER OF CONTAINERS	8290	1613B	1613 TCDD only	1668 WHO	1668 Full List	TOC (USEPA 7060A)	USEPA 7060A	REMARKS
<u>SJRS0001-A</u>	<u>8-11-11</u>	<u>0757</u>	<u>SL</u>	<u>3</u>		X				X	X	
<u>SJRS001-A</u>	<u>8-11-11</u>	<u>0757</u>	<u>SL</u>	<u>3</u>		X				X	X	
<u>SJRS002-A</u>	<u>8-11-11</u>	<u>1051</u>	<u>SL</u>	<u>3</u>		X				X	X	
<u>SJRS003-A</u>	<u>8-11-11</u>	<u>1130</u>	<u>SL</u>	<u>3</u>		X				X	X	
<u>SJRS004-A</u>	<u>8-11-11</u>	<u>1150</u>	<u>SL</u>	<u>3</u>		X				X	X	
<u>SJRS005-A</u>	<u>8-11-11</u>	<u>1230</u>	<u>SL</u>	<u>3</u>		X				X	X	
<u>SJRS006-A</u>	<u>8-11-11</u>	<u>1430</u>	<u>SL</u>	<u>3</u>		X				X	X	
<u>SJRS007-A</u>	<u>8-11-11</u>	<u>1440</u>	<u>SL</u>	<u>3</u>		X				X	X	
<u>SJRS008-A</u>	<u>8-11-11</u>	<u>1459</u>	<u>SL</u>	<u>3</u>		X				X	X	
<u>SJRS009-A</u>	<u>8-11-11</u>	<u>1415</u>	<u>SL</u>	<u>3</u>		X				X	X	

RELINQUISHED BY: Signature <u>[Signature]</u> Printed Name <u>BRETT SOUTER</u> Firm <u>USESI</u> Date/Time <u>8/12/11 0810</u>	RECEIVED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____	TURNAROUND REQUIREMENTS (in working days) RUSH 5 Days RUSH 10 Days STD 15 DAYS	DELIVERABLES <input type="checkbox"/> I. Analytical Report <input type="checkbox"/> II. Analytical Report + QC <input type="checkbox"/> IV. Data Validation Report (includes All Raw Data)	INVOICE INFORMATION: P.O.# _____ Bill To _____ _____ _____	SAMPLE RECEIPT: Opened by: _____ Inspected by: _____ Date: _____ Time: _____
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RELINQUISHED BY: Signature _____ Printed Name _____ Firm _____ Date/Time _____	RECEIVED BY: Signature <u>[Signature]</u> Printed Name <u>JAMIEH ATALIA</u> Firm _____ Date/Time <u>8-15 8/12/11</u>	SPECIAL INSTRUCTIONS/COMMENTS: 1) Spec to 570 ASTM D-422 and D-1140 w/ the USEPA (1986) modifications 2) Also Report to Craig Hutchins at Integral Consulting
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SAMPLER'S SIGNATURE _____

